

BOBBY JINDAL
GOVERNOR



HAROLD LEGGETT, PH.D.
SECRETARY

State of Louisiana
DEPARTMENT OF ENVIRONMENTAL QUALITY
ENVIRONMENTAL SERVICES

Certified Mail No.

Activity No.: PER20080001
Agency Interest No. 1244

Mr. Gene Lavengco
Plant Manager
Firestone Polymers
PO Box 1361
Lake Charles, LA 706021361

RE: Part 70 Operating Permit Renewal/Modification, Firestone Polymers - Lake Charles Facility, Firestone Polymers LLC, Sulphur, Calcasieu Parish, Louisiana

Dear Mr. Lavengco:

This is to inform you that the permit renewal/modification for the above referenced facility has been approved under LAC 33:III.501. The permit is both a state preconstruction and Part 70 Operating Permit. The submittal was approved on the basis of the emissions reported and the approval in no way guarantees the design scheme presented will be capable of controlling the emissions as to the types and quantities stated. A new application must be submitted if the reported emissions are exceeded after operations begin. The synopsis, data sheets and conditions are attached herewith.

It will be considered a violation of the permit if all proposed control measures and/or equipment are not installed and properly operated and maintained as specified in the application.

Operation of this facility is hereby authorized under the terms and conditions of this permit. This authorization shall expire at midnight on the _____ of _____, 2014, unless a timely and complete renewal application has been submitted six months prior to expiration. Terms and conditions of this permit shall remain in effect until such time as the permitting authority takes final action on the application for permit renewal. The permit number and agency interest number cited above should be referenced in future correspondence regarding this facility.

Please be advised that pursuant to provisions of the Environmental Quality Act and the Administrative Procedure Act, the Department may initiate review of a permit during its term. However, before it takes any action to modify, suspend or revoke a permit, the Department shall, in accordance with applicable statutes and regulations, notify the permittee by mail of the facts or operational conduct that warrant the intended action and provide the permittee with the opportunity to demonstrate compliance with all lawful requirements for the retention of the effective permit.

Done this _____ day of _____, 2009.

Permit No.: 0520-00007-V2

Sincerely,

A handwritten signature in black ink, appearing to read "P/L".

**AIR PERMIT BRIEFING SHEET
AIR PERMITS DIVISION
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

Firestone Polymers - Lake Charles Facility

Agency Interest No.: 1244

Firestone Polymers LLC

Sulphur, Calcasieu Parish, Louisiana

I. Background

Firestone Polymers LLC (Firestone), a Division of Bridgestone/Firestone, Inc. has operated Lake Charles Facility since prior to 1969. Firestone modernized the facility in 1979 under a two phase project which was approved by Permit No. 1016T dated August 9, 1979. Other permit actions were approved in the past. State Permit No. 0520-00007-02 dated May 19, 1997 allowed Firestone to update emissions based on stack test and establish emission caps for operational flexibility. Currently the facility is operating under a Part 70 Operating Permit No. 0520-00007-V1 dated November 29, 2005 and Prevention of Significant Deterioration Permit No. PSD-LA-672 dated July 30, 2003.

II. Origin

A permit application and Emission Inventory Questionnaire (EIQ) dated January 31, 2008 were submitted requesting a Part 70 Operating permit renewal. A revised application was submitted on June 30, 2008 requesting a renewal/modification to the current Permit No. 0520-00007-V1. Additional information as of January 5, 2008, was also received.

III. Description

Firestone Polymers, LLC Lake Charles facility is a synthetic rubber manufacturing facility which produces different grades of styrene-butadiene rubber (SBR) and polybutadiene (PBR) with continuous and batch reactors. The SBR and PBR are produced from butadiene, either with or without styrene monomers, in a solvent base of commercial hexane. Commercial hexane is composed of primarily n-hexane but also contains varying amounts of other isomers of hexane. Polymerization is the linking together of molecules of monomer, such as butadiene and/or styrene, to form long molecules (called chains) of polymer. Since the polymer remains dissolved in the solvent, the process is called "solution polymerization." After polymerization of the polybutadiene or butadiene-styrene copolymers, small amounts of additives are combined with the rubber product to impart the desired characteristics to the type and grade of rubber being produced.

To manufacture these products, Firestone utilizes storage tanks, piping, boilers, pumps, reactors, blend tanks, dryers, conveyors and other related equipment. Raw materials are received at the facility via railcars, tank trucks, and pipelines. The products are shipped out by trucks and railcars.

Process vents, various process vessels, tanks, and equipment, reactors and railcar unloading vents are routed to a flare header system which delivers the combined vent stream to the flare for destruction prior to emission to atmosphere.

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The **100 Area** is the Tank Farm Area which serves the following functions: unloading, storing, and feeding of raw materials and receiving, storing, and feeding of process materials. Raw materials include 1,3-butadiene, styrene, hexane Solvent, cyclohexane, process oils, and caustic. Process materials received, stored, and feed at the 100 Area are Purified Solvent, Unpurified Recovered Solvent, Recovered Butadiene, Distillation Bottoms, Blend "B" (1,3-butadiene and solvent) and Blend "S" (styrene and solvent).

1,3-butadiene is stored in two pressurized tanks that vent to the flare for pressure release and during emergencies. Butadiene polymerizes readily, particularly in the presence of oxygen, therefore, it is shipped with an inhibitor to prevent spontaneous polymerization. Styrene is stored in two fixed-roof tanks and hexane is stored in two fixed roof tanks. Vents from the hexane tanks are routed to the flare header system.

Major operations in the **200 Area** are as follows: (1) Solvent Purification and Drying; (2) Preparation and Drying of Blend B; (3) Metering and Drying of Blend S, and (4) Vent Gas Absorption. The Vent Gas Absorption system reduces hydrocarbons from process vent gases that are routed to the flare.

The formation of rubber crumb begins with removing the inhibitor from the butadiene in a wash system prior to its introduction into the reactor. In the production of SBR, butadiene and styrene are combined in a reactor in the presence of hexane to form rubber cement. In BR production only butadiene is introduced into the reactor. Catalyst solutions from the **300 Area** are transferred to the **400/1400 Areas** for reaction initiation by the computer control.

The function of the **400 Area** is to bring together in a continuous reactor the ingredients necessary for synthesis of synthetic rubber. The ingredients consist of monomers, solvent, catalyst, and modifiers, which are continuously fed into the reactor and leave as finished rubber cement. This process is referred to as continuous polymerization.

The function of the **1400 Area** is to bring together in a batch reactor the ingredients necessary for synthesis of synthetic rubber. The ingredients consist of monomers, solvent, catalyst, and modifiers, which are feed automatically by the Distributive Control System (DCS) according to the formula entered by the coordinator. The batch process makes it possible to manufacture polymers with properties that are not achievable in continuous polymerization.

Batches from the **1400 Area** are transferred through a series of strainers and mixers in route to the **1500 Area** blend tanks. Likewise, cement from the continuous polymerization process (400 area) is transferred through a series of strainers and mixers in route to the **500A Area** blend tanks.

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From the blend tanks, vapors are extracted from the raw product as it flows through the crumbing, stripping, and slurry tanks. Both types of reactors use a similar, but dedicated, desolventization process (**500B Area**). The desolventization process accomplishes two functions: (1) it physically forms the rubber cement into crumb rubber in the crumb units, and (2) it removes and recovers hexane using steam strippers. At this point in the process, the rubber crumb is stripped of hexane and rubber crumb slurry remains. The hexane is reclaimed in the solvent purification area of the plant for reuse in the process. The solvent purification area includes a distillation system that separates the hexane from water and residual butadiene and styrene. The rubber crumb slurry is transferred to the **500C Area** for dewatering. This area is commonly referred to as the **Process Area**.

The finishing line serves to remove water from the rubber crumb slurry. The crumb product is dried through a series of steps to lower water content to product specification. Each finishing line consists of one dewatering screen, one French oil mill press, one dryer, and one baler. The finishing process is similar each line and is the main source of emissions from the facility. Rectangular bales are formed from the rubber crumb, which are wrapped in plastic film and shipped via truck or rail.

The **600 Area** is the Utilities Department which consists of the boiler house, water well system, water softening system, effluent system, cooling towers and the sewage treatment plant.

The emissions from the continuous and batch front-end process vents are combined in a closed vent system and controlled by the flare having 98% destruction efficiency.

The facility uses stripping technology along with periodic crumb sampling to comply with the requirements of NESHAP, 40 CFR 63, Subpart U for the back-end processes. The wastewater streams are classified as Group 2. Group 1 tanks are equipped with floating roof or are routed to the flare. Drying line, boilers, cooling towers, low pressure storage tanks, solvent storage tanks, and monomer storage tanks emissions are grouped and the emissions are capped for each group. This gives Firestone flexibility to meet market and customer demands.

Firestone is proposing a modification to the existing permit as follows:

1. Change the consumption of natural gas in the Dryers and the Boilers;
2. Increase the hours of operation of the temporary boiler;
3. Reconcile the Wastewater Treatment System emissions based on the use of Water9 and new sampling data;
4. Reconcile VOC emissions from the Flares;
5. Revise the tank inventory to reflect the tanks taken out of service;
6. Revise fugitive emissions based on enhanced monitoring under LDAR program;
7. Revise the Insignificant Activities List and the General Condition XVII Activities List based on the recent audit conducted by the facility; and

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8. Incorporate the Firewater Pump Engine approved under the Case by Case on September 25, 2006.
9. Add a new continuous Reactor R-400, which will only increase emissions due to fugitive components; and
10. Add a new SBR rubber product to the existing batch processing lines, which will increase the emissions due to fugitive components and the overall production of SBR rubber will not change.

The permitted emissions from the Lake Charles Facility in tons per year are as follows:

<u>Pollutant</u>	<u>Before</u>	<u>After</u>	<u>Change</u>
PM ₁₀	40.90	39.24	- 1.66
SO ₂	0.89	0.76	- 0.13
NO _x	143.98	126.54	- 17.44
CO	37.74	37.09	- 0.65
VOC	1671.46	1493.29	- 178.17

Prevention of Significant Deterioration (PSD) review is not required as the criteria pollutants overall emissions have decreased.

VOC LAC 33:III Chapter 51 Toxic Air Pollutants (TAPs):

Pollutant	Before	After	Change
1,3-Butadiene	6.10	4.32	- 1.78
Acrolein	-	<0.001	-
Benzene	-	<0.001	-
Ethyl benzene	-	<0.001	-
n-Hexane	978.14	913.85	- 64.29
Styrene	55.95	51.70	- 4.25
Xylene (mixed isomers)	-	<0.001	-
Total	1040.19	969.87	- 70.32
Other VOC		523.42	

Non-VOC Toxic Air Pollutants (TAPs):

Pollutant	Before	After	Change
Chlorine	4.00	4.00	-
Sulfuric acid	0.01	0.01	-
Total	4.01	4.01	-

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IV. Type of Review

This permit was reviewed for compliance with 40 CFR 70 and the Louisiana Air Quality Regulations, New Source Performance Standards (NSPS) and National Emission Standards for Hazardous Air Pollutants (NESHAP). Prevention of Significant Deterioration (PSD) does not apply.

The facility is a major source of toxic air pollutants. Styrene, n-hexane, chlorine, and 1,3-butadiene emissions are above the minimum emission rates (MER) under Louisiana Air Toxic Regulations. Styrene and 1,3-butadiene and fugitive emissions of styrene, n-hexane, and 1,3-butadiene are controlled by a Leak Detection and Repair (LDAR) program complying with NESHAP, 40 CFR 63, Subparts I and U. The plant is a major source under Part 70 Operating Permit regulations and the Louisiana Toxic Air Pollutant Program, LAC 33:III.Chapter 51. The requirements of the toxic compliance plan approved on February 7, 1995 have been incorporated in this permit. Impact of toxic air pollutants on air quality is below the air ambient standards (AAS).

V. Credible Evidence

Notwithstanding any other provisions of any applicable rule or regulation or requirement of this permit that state specific methods that may be used to assess compliance with applicable requirements, pursuant to 40 CFR Part 70 and EPA's Credible Evidence Rule, 62 Fed. Reg. 8314 (Feb. 24, 1997), any credible evidence or information relevant to whether a source would have been in compliance with applicable requirements if the appropriate performance or compliance test or procedure had been performed shall be considered for purposes of Title V compliance certifications. Furthermore, for purposes of establishing whether or not a person has violated or is in violation of any emissions limitation or standard or permit condition, nothing in this permit shall preclude the use, including the exclusive use, by any person of any such credible evidence or information.

VI. Public Notice

A notice requesting public comment on the permit was published in *The Advocate*, Baton Rouge, on <date>, 2008; and in the *American Press*, Lake Charles, on <date>, 2008. A copy of the public notice was mailed to concerned citizens listed in the Office of Environmental Services Public Notice Mailing List on <date>, 2008. The draft permit was also submitted to US EPA Region VI via e-mail on <date>, 2008. All comments will be considered prior to the final permit decision.

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VII. Effects on Ambient Air

Emissions associated with the proposed renewal/modification were screened to ensure compliance with the NAAQS and Louisiana Ambient Air Standards (AAS). Preliminary screening indicated that the AAS for 1,3-butadiene was exceeded; therefore, refined modeling was performed for this pollutant. The results are shown below.

Dispersion Model(s) Used: ISCST3

Pollutant	Time Period	Calculated Maximum Ground Level Concentration	Louisiana Toxic Air Pollutant Ambient Air Quality Standard or (National Ambient Air Quality Standard (NAAQS))
1,3-Butadiene	Annual	2.45 ug/m ³	0.92 ug/m ³

Firestone is retrofitting their wastewater system at production lines 9 and 10 solvent receivers with controls resulting in greater than 90% reduction of 1,3-butadiene emissions. Accounting for the controls, annual 1,3-butadiene emissions of 4.32 tons per year were used in the model.

The predicted maximum annual average concentration of 1,3-butadiene was 2.45 $\mu\text{g}/\text{m}^3$, which exceeded the AAS standard of 0.92 $\mu\text{g}/\text{m}^3$ and occurred at receptors located on adjacent industrial property. Since access to these locations is restricted, long term exposure to 1,3-butadiene is not expected to impact non-industrial areas. The impact of emissions on non-industrial property was below the AAS for 1,3-butadiene.

At the request of LDEQ, modeling was conducted for those receptors that showed an exceedance over the AAS outside Firestone's facility boundaries in order to establish an 8-hour average concentration. This concentration was compared to the Occupational Health and Safety Administration (OSHA) standard for 1,3-butadiene listed in 29 CFR 1910.1051. The OSHA standard for 1,3-butadiene is 1 ppm (2209 $\mu\text{g}/\text{m}^3$) averaged over any 8-hour period. Modeling results indicated a maximum 8-hour concentration of 22.7 $\mu\text{g}/\text{m}^3$ for those receptors and demonstrate compliance with the OSHA standard. The modeling results show that Firestone's emissions will not pose a significant worker exposure risk.

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VIII. General Condition XVII Activities

Work Activity	Schedule	Emission Rates - tons			
		PM ₁₀	SO ₂	NO _x	CO
Small Vacuum Truck Loading	25 trucks/yr				0.03
Tank and Pump Testing	365 times/yr				1.92
Sampling of Tanks and Reactors	3,400 times/yr				4.76
Knockout Emissions	4 times/yr				<0.01
Tank Cleanout	12 times/yr				0.14
FHS Maintenance	350 times/yr				2.99
Material Transfer	3,300 times/yr				4.20
Vessel Preparation	84 times/yr				0.24
Rental Emergency Diesel Generators (< 500 hp)	NA	0.15	0.08	4.49	1.14
					0.15

IX. Insignificant Activities

ID No.:	Description	Citation
F-320	Rubber Additive Tank (15 gal)	LAC 33:III.501.B.5.A.2
F-321	Rubber Additive Tank (15 gal)	LAC 33:III.501.B.5.A.2
F4-109	Rubber Additive Tank (185 gal)	LAC 33:III.501.B.5.A.2
F4-121A	Rubber Additive Tank (120 gal)	LAC 33:III.501.B.5.A.2
F4-125	Rubber Additive Tank (150 gal)	LAC 33:III.501.B.5.A.2
F4-127	Rubber Additive Tank (130 gal)	LAC 33:III.501.B.5.A.2
F4-128	Rubber Additive Tank (15 gal)	LAC 33:III.501.B.5.A.2
F-470	Rubber Additive Tank (339 gal)	LAC 33:III.501.B.5.A.3
F-471	Rubber Additive Tank (6463 gal)	LAC 33:III.501.B.5.A.3
F-493	Rubber Additive Tank (5634 gal)	LAC 33:III.501.B.5.A.3
F-494	Rubber Additive Tank (5634 gal)	LAC 33:III.501.B.5.A.3
F-499	Rubber Additive Tank (5634 gal)	LAC 33:III.501.B.5.A.3

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Sulphur, Calcasieu Parish, Louisiana

ID No.:	Description	Citation
F-545	Rubber Additive Tank (1035 gal)	LAC 33:III.501.B.5.A.3
F-465	Rubber Additive Tank (5875 gal))	LAC 33:III.501.B.5.A.3
F4-100	Rubber Additive Tank (5634 gal)	LAC 33:III.501.B.5.A.3
F4-102	Rubber Additive Tank (641 gal)	LAC 33:III.501.B.5.A.3
Port 1	Diesel Fuel Tank (564 gal)	LAC 33:III.501.B.5.A.3
Port 2	Diesel Fuel Tank (564 gal)	LAC 33:III.501.B.5.A.3
Port 3	Diesel Fuel Tank (564 gal)	LAC 33:III.501.B.5.A.3
Port 4	Diesel Fuel Tank (564 gal)	LAC 33:III.501.B.5.A.3
FIRETK	Diesel Fuel Tank (588 gal)	LAC 33:III.501.B.5.A.3
-	Inorganic Air Pollutants (helium)	LAC 33:III.501.B.5.A.4
-	Space Heaters (< 1 MM BTU/hr)	LAC 33:III.501.B.5.A.5
WW4TK	Diesel Fuel Tank (588 gal)	LAC 33:III.501.B.5.A.3
TK@PH	Diesel Fuel Tank (588 gal)	LAC 33:III.501.B.5.A.3
TK@FL	Diesel Fuel Tank (540 gal)	LAC 33:III.501.B.5.A.3
EHA	EHA Tank (9,107 gal)	LAC 33:III.501.B.5.A.3
-	Inorganic Air Pollutants (argon)	LAC 33:III.501.B.5.A.4
-	Hot Water Heaters (< 1 MM BTU/hr)	LAC 33:III.501.B.5.A.5
-	Laboratory Equipment	LAC 33:III.501.B.5.A.6
-	Drum Washing (55 gal)	LAC 33:III.501.B.5.A.7
-	Portable Fuel Tanks	LAC 33:III.501.B.5.A.8
-	Various Storage Tanks (soaps, detergents, etc.)	LAC 33:III.501.B.5.A.10
-	Catalyst Charging	LAC 33:III.501.B.5.A.11

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Firestone Polymers - Lake Charles Facility
 Agency Interest No.: 1244
Firestone Polymers LLC
Sulphur, Calcasieu Parish, Louisiana

X. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	LAC 33:III Chapter																
		5	9	11	13	15	2103	2111	2113	2121	2115	2139	2153	17	29*	51*	509	56
UNF001	LCF, Lake Charles Facility	1	1	1	1	1									1	1	1	1
EQT001	96-01a, Steam Drying Line 18		2	2	1										1	1	1	1
EQT002	96-01b, Drying Line 20	1	1	1											1	1	1	1
EQT003	96-01c, Drying Line 21	1	1	1											1	1	1	1
EQT004	96-01d, Drying Line 22	1	1	1											1	1	1	1
EQT005	96-01e, Drying Line 23	1	1	1											1	1	1	1
EQT006	96-02a, Boiler No 5	1	1	1														
EQT007	96-02b, Boiler No 6	1	1	1														
EQT008	96-02c, Boiler No 7	1	1	1														
EQT009	96-02d, Boiler No 8	1	1	1														
EQT010	96-02e, Portable Boiler	1	1	1														
EQT011	96-03a, Primary Flare	1	1	1											1	1	1	1
EQT012	96-03b, Auxiliary Relief Flare	1	1	1														
EQT013	96-04, Wastewater Treatment System														2			
EQT014	96-05a, North Cooling Tower																	
EQT015	96-05b, South Cooling Tower																	
EQT016	96-05c, Temporary Cooling Tower																	
EQT018	96-06b, Additive Tank (F-126)														2			
EQT019	96-06c, Additive Tank (F-135)														2			
EQT020	96-06d, Fuel Tank (F-136)														2			

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ID No.:	Description	LAC 33:III Chapter															
		5	9	11	13	15	2103	2111	2113	2121	2115	2139	2153	17	29*	51*	509
EQT021	96-06e, Additive Tank (F-137)																
EQT022	96-06f, Additive Tank (F-138)																
EQT023	96-06g, Additive Tank (F-139)																
EQT024	96-06h, Additive Tank (F-140)																
EQT028	96-06l, Additive Tank (F-144)																
EQT029	96-06m, Additive Tank (F4-120)																
EQT031	96-06o, Additive Tank (F-436)																
EQT032	96-06p, Additive Tank (F-437)																
EQT033	96-06q, Additive Tank (F-443)																
EQT034	96-06r, Additive Tank (F-444)																
EQT036	96-06t, Additive Tank (F-485)																
EQT037	96-06u, Acid Tank (F-612)																
EQT038	96-06v, Acid Tank (F-614)																
EQT039	96-06w, Acid Tank (F-615)																
EQT040	96-06x, Acid Tank (F-639)																
EQT042	96-07a, Solvent Tank (F-127)														1	1	
EQT043	96-07b, Solvent Tank (F-128)														1		
EQT046	96-09, Fuel Tank														1		
EQT047	96-12a, Monomer Tank (F-103)														2	1	
EQT048	96-12b, Monomer Tank (F-125)														2	1	

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X. Applicable Louisiana and Federal Air Quality Requirements

LAC 33:III Chapter																			
ID No.:	Description	5	9	11	13	15	2103	2111	2113	2121	2115	2139	2153	17	29*	51*	509	56	59
EQT050	96-06z, Acid Tank (F-647)																		
EQT051	PE-06, Emergency Firewater Pump Engine																		
FUG001	96-10, Process Fugitives														1	2			
FUG002	96-11, Laboratory Fugitives															2			

KEY TO MATRIX

- 1 - The regulations have applicable requirements which apply to this particular emission source.
 - The emission source may have an exemption from control stated in the regulation. The emission source may not have to be controlled but may have monitoring, recordkeeping, or reporting requirements.
 - 2 - The regulations have applicable requirements which apply to this particular emission source but the source is currently exempt from these requirements due to meeting a specific criteria, such as it has not been constructed, modified or reconstructed since the regulations have been in place. If the specific criteria changes the source will have to comply at a future date.
 - 3 - The regulations apply to this general type of emission source (i.e. vents, furnaces, and fugitives) but do not apply to this particular emission source.

BLANK – The regulations clearly do not apply to this type of emission source.

* The regulations indicated above are State Only regulations except for LAC 33:III.501.C.6 Limitations that specifically state that the regulation is Federally Enforceable

- * The regulations indicated above are State Only regulations.
 - ▲ All LAC 33:III Chapter S citations are federally enforceable including LAC 33:III.501.C.6 citations, except when the requirement found in the “Specific Requirements” report specifically states that the regulation is State Only.

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X. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	40 CFR 60 NSPS						40 CFR 61						40 CFR 63 NESHAP						40 CFR							
		A	D _b	D _c	J	K _b	V _V	G _{GGG}	N _{NNN}	Q _{QQ}	A	J	M	V	F _{FF}	A	F	G	H	U	Q	A	D ₄	H ₈	S ₈₂	P ₅₂	
UNF001	LCF, Lake Charles Facility	1								1	1			1	1	1	1	1	1	1	1						
EQT001	96-01a, Steam Drying Line 18																										
EQT002	96-01b, Drying Line 20																										
EQT003	96-01c, Drying Line 21																										
EQT004	96-01d, Drying Line 22																										
EQT005	96-01e, Drying Line 23																										
EQT006	96-02a, Boiler No 5	2	2																								
EQT007	96-02b, Boiler No 6	2	2																								
EQT008	96-02c, Boiler No 7	2	2																								
EQT009	96-02d, Boiler No 8	2	1																								
EQT010	96-02e, Portable Boiler		1																								
EQT011	96-03a, Primary Flare																										
EQT012	96-03b, Auxiliary Relief Flare																										
EQT013	96-04, Wastewater Treatment System																										
EQT014	96-05a, North Cooling Tower																										2
EQT015	96-05b, South Cooling Tower																										2

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Firestone Polymers LLC
Sulphur, Calcasieu Parish, Louisiana

X. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	40 CFR 60 NSPS										40 CFR 61										40 CFR					
		A	D _b	D _c	J	K _b	V _V	G _{GG}	N _{NN}	Q _{QQ}	A	J	M	V	F _F	A	F	G	H	U	Q	64	68	82	52		
EQT016	96-05c, Temporary Cooling Tower																										
EQT018	96-06b, Additive Tank (F-126)																										
EQT019	96-06c, Additive Tank (F-135)																										
EQT020	96-06d, Fuel Tank (F-136)																										
EQT021	96-06e, Additive Tank (F-137)																										
EQT022	96-06f, Additive Tank (F-138)																										
EQT023	96-06g, Additive Tank (F-139)																										
EQT024	96-06h, Additive Tank (F-140)																										
EQT028	96-06l, Additive Tank (F-144)																										
EQT029	96-06m, Additive Tank (F-120)																										
EQT031	96-06o, Additive Tank (F-436)																										
EQT032	96-06p, Additive Tank (F-437)																										

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Firestone Polymers - Lake Charles Facility
Agency Interest No.: 1244
Firestone Polymers LLC
Sulphur, Calcasieu Parish, Louisiana

X. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	40 CFR 60 NSPS												40 CFR 63 NESHAP												40 CFR	
		A	D _b	D _c	J	K _b	V _V	G _{GG}	N _{NNN}	Q _{QQ}	A	J	M	V	F _{FF}	A	F	G	H	U	Q	64	68	82	52		
EQT033	96-06q, Additive Tank (F-443)																										
EQT034	96-06r, Additive Tank (F-444)																										
EQT036	96-06t, Additive Tank (F-485)																										
EQT037	96-06u, Acid Tank (F-612)																										
EQT038	96-06v, Acid Tank (F-614)																										
EQT039	96-06w, Acid Tank (F-615)																										
EQT040	96-06x, Acid Tank (F-619)																										
EQT042	96-07a, Solvent Tank (F-127)																										
EQT043	96-07b, Solvent Tank (F-128)																										
EQT046	96-09, Fuel Tank																										
EQT047	96-12a, Monomer Tank (F-103)																										
EQT048	96-12b, Monomer Tank (F-125)																										
EQT050	96-06z, Acid Tank																										

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Firestone Polymers - Lake Charles Facility
Agency Interest No.: 1244
Firestone Polymers LLC
Sulphur, Calcasieu Parish, Louisiana

X. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	40 CFR 60 NSPS						40 CFR 61						40 CFR 63 NESHAP						40 CFR						
		A	D _b	D _c	J	K _b	V _V	G _{GGG}	N _{NNN}	Q _{QQ}	A	J	M	V	F _{FF}	A	F	G	H	U	Q	64	68	82	52	
EQT051	PE-06, Emergency Pump Engine																									
FUG001	96-10, Process Fugitives																									
FUG002	96-11, Laboratory Fugitives																									

KEY TO MATRIX

- 1 - The regulations have applicable requirements which apply to this particular emission source.
 - The emission source may have an exemption from control stated in the regulation. The emission source may not have to be controlled but may have monitoring, recordkeeping, or reporting requirements.
- 2 - The regulations have applicable requirements which apply to this particular emission source but the source is currently exempt from these requirements due to meeting a specific criteria, such as it has not been constructed, modified or reconstructed since the regulations have been in place. If the specific criteria changes the source will have to comply at a future date.
- 3 - The regulations apply to this general type of emission source (i.e. vents, furnaces, and fugitives) but do not apply to this particular emission source.
 Blank - The regulations clearly do not apply to this type of emission source.

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Firestone Polymers - Lake Charles Facility
Agency Interest No.: 1244
Firestone Polymers LLC
Sulphur, Calcasieu Parish, Louisiana

XI. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Requirement	Status	Citation	Explanation
UNF001 LCF, Lake Charles Facility	Compliance Assurance Monitoring for Major Stationary Sources	Exempt	40 CFR 64.2(b)(i)	The initial TV application was deemed complete by LDEQ before April 20, 1998. Steam Stripping operations prior to back end are an integral part (Wastewater System) of the solution process.
EQT001 Steam Drying Line 18 96-01a	Control of Emissions of Smoke LAC 33:III. Chapter 11	Does not apply	LAC 33:III.1101.B	Steam is used for drying. Does not use fuel for generating heat.
	Emission Standards for Particulate Matter – Emission Limits LAC 33:III Chapter 13	Does not apply	LAC 33:III.1311.C LAC 33:III.1313.C	Steam is used for drying. Does not burn fuel for generating heat.
EQT006 thru 008 Boilers 96-02a thru 96-02c	NSPS, Subpart Db – Standards of Performance for Industrial –Commercial –Institutional Steam Generating Units	Does not apply	40 CFR 60.40b(a)	Boiler capacity less than 100 MM BTU/hr
	NSPS, Subpart Dc – Standards of Performance for Small Industrial – Commercial –Institutional Steam Generating Units	Does not apply	40 CFR 60.40c(a)	Boiler constructed prior to June 9, 1989
EQT009 Boiler 96-02d	NSPS, Subpart Db – Standards of Performance for Industrial –Commercial –Institutional Steam Generating Units	Does not apply	40 CFR 60.40b(a)	Boiler capacity less than 100 MM BTU/hr
EQT013 Wastewater Treatment System, 96-04	Limiting Organic Compound (VOC) Emissions From Industrial Wastewater LAC 33:III.Chapter 21	Does not apply	LAC 33:III.2153.A	The facility is not located in the referenced parishes.

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Firestone Polymers - Lake Charles Facility
Agency Interest No.: 1244
Firestone Polymers LLC
Sulphur, Calcasieu Parish, Louisiana

XI. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Requirement	Status	Citation	Explanation
EQT018 thru EQT024, EQT028, EQT029, EQT031 thru EQT034, EQT036 thru EQT040, and EQT050 Storage Tanks 96-06(b) thru (z)	Control of Organic Compounds – Storage of VOC LAC 33:III.Chapter 21	Does not apply	LAC 33:III.2103.B	The tanks store materials having a total vapor pressure of less than 1.5 psia.
EQT047 and EQT048 Monomer Tanks 96-12a and 96-12b	Control of Organic Compounds – Storage of VOC LAC 33:III.Chapter 21	Does not apply	LAC 33:III.2103.B	The tanks store materials having a total vapor pressure of less than 1.5 psia.
FUG001 and FUG002 Process and Laboratory Fugitives 96-10 and 96-11	Control of Organic Compounds – Fugitive Emission Control LAC 33:III.Chapter 21	Does not apply	LAC 33:III.2121.A	The facility is not referenced in the regulation.
UNF001 LCF Lake Charles Facility	Chapter 51 - Emission Control and Reduction Requirements and Standards	Does not apply	LAC 33:III.5109.C	Standard Operating Procedure is not required as the facility complies with federal requirements of 40 CFR 63

The above table provides explanation for both the exemption status or non-applicability of a source cited by 2 or 3 in the matrix presented in Section X of this permit

General Information

AI ID: 1244 Firestone Polymers - Lake Charles Facility
Activity Number: PER2008001
Permit Number: 0520-00007-V2
Air - Title V Regular Permit Renewal

Also Known As:	ID	Name	User Group	Start Date
	0520-00007	Firestone Polymers - Lake Charles Facility	CDS Number	08-05-2002
34-0220440		Federal Tax ID	Federal Tax ID	11-21-1999
LAD008073439		Firestone Polymers LLC	Hazardous Waste Notification	02-18-2000
LA00003824		LPDES #	LPDES Permit #	05-22-2003
WP0753		WPC State Permit Number	LWDPS Permit #	06-25-2003
		Priority 1 Emergency Site	Priority 1 Emergency Site	07-18-2006
6767		Firestone Synthetic Rubber & Latex Co	Solid Waste	01-08-2002
GD-019-0854		SW ID#	Solid Waste Facility No.	05-01-2001
153963		Firestone Synthetic Rubber & Latex	TEMPO Merge	01-30-2008
16072		Firestone Polymers	TEMPO Merge	04-23-2001
70602FRSTNL A108		TRI #	Toxic Release Inventory	07-13-2004
1365		Firestone Polymers	Water Permitting	11-21-1999
Physical Location:		1801 Hwy 108 E Sulphur, LA 70663	Main FAX: 3378826051 Main Phone: 3378821211	
Mailing Address:		PO Box 1361 Lake Charles, LA 706021361		
Location of Front Gate:		30° 11' 61 hundredths latitude, 93° 19' 56" 60 hundredths longitude, Coordinate Method: Lat. \ Long. - DMS, Coordinate Datum: NAD83		
Related People:	Name	Mailing Address	Phone (Type)	Relationship
	Ken Gay	PO Box 1361 Lake Charles, LA 706021361	3378825373 (VP)	Accident Prevention Billing Party for
	Kirk Larson	PO Box 1361 Lake Charles, LA 706021361	3378821211 (VP)	Responsible Official for
	Gene Lavengco	PO Box 1361 Lake Charles, LA 706021361	3378825375 (VP)	Responsible Official for
	J. C. Mathis	PO Box 1361 Lake Charles, LA 706021361	3378825375 (VP)	Responsible Official for
	Todd Palmer	PO Box 1361 Lake Charles, LA 706021361	3378825375 (VP)	Accident Prevention Contact for
	Todd Palmer	PO Box 1361 Lake Charles, LA 706021361	TBPALMER@FIRES	Accident Prevention Contact for
	Colin Ringle	PO Box 1361 Lake Charles, LA 706021361	3378821211 (VP)	Hazardous Waste Permit Contact For
	Gary Slaven	PO Box 1361 Lake Charles, LA 706021361	3378825390 (VP)	Haz. Waste Billing Party for
	Gary Slaven	PO Box 1361 Lake Charles, LA 706021361	mgslaven@firestone	Water Billing Party for
	Gary Slaven	PO Box 1361 Lake Charles, LA 706021361	3378825390 (VP)	Water Billing Party for
	Gary Slaven	PO Box 1361 Lake Charles, LA 706021361	3378825390 (VP)	Solid Waste Billing Party for
	Gary Slaven	PO Box 1361 Lake Charles, LA 706021361	3378825390 (VP)	Solid Waste Billing Party for
	Gary Slaven	PO Box 1361 Lake Charles, LA 706021361	3378825390 (VP)	Emission Inventory Contact for
	Gary Slaven	PO Box 1361 Lake Charles, LA 706021361	mgslaven@firestone	Emission Inventory Contact for
	Gary Slaven	PO Box 1361 Lake Charles, LA 706021361	mgslaven@firestone	Haz. Waste Billing Party for

General Information

AI ID: 1244 Firestone Polymers - Lake Charles Facility
Activity Number: PER2008001
Permit Number: 0520-00007-V2
Air - Title V Regular Permit Renewal

Related Organizations:	Name	Address	Phone (Type)	Relationship
	Firestone Polymers LLC	PO Box 1361 Lake Charles, LA 706021361		Owns
	Firestone Polymers LLC	PO Box 1361 Lake Charles, LA 706021361		Air Billing Party for
	Firestone Synthetic Rubber & Latex Co	381 W Wilbeth Rd Akron, OH 44301		Emission Inventory Billing Party

NAIC Codes:

325212, Synthetic Rubber Manufacturing

Note: This report entitled "General Information" contains a summary of facility-level information contained in LDEQ's TEMPO database for this facility and is not considered a part of the permit.
Please review the information contained in this document for accuracy and completeness. If any changes are required or if you have questions regarding this document, you may contact Mr. David Ferrand, Environmental Assistance Division, at (225) 219-0775 or email your changes to facupdate@la.gov.

INVENTORIES

AI ID: 1244 - Firestone Polymers - Lake Charles Facility
Activity Number: PER2008001
Permit Number: 0520-00007-V2
Air - Title V Regular Permit Renewal

Subject Item Inventory:

ID	Description	Tank Volume	Max. Operating Rate	Normal Operating Rate	Contents	Operating Time
Lake Charles Facility						
EQT 0001	96-01a - Drying Line 18		18000 lb/hr	18000 lb/hr		8760 hr/yr
EQT 0002	96-01b - Drying Line 20		22000 lb/hr	22000 lb/hr		8760 hr/yr
EQT 0003	96-01c - Drying Line 21		22000 lb/hr	22000 lb/hr		8760 hr/yr
EQT 0004	96-01d - Drying Line 22		22000 lb/hr	22000 lb/hr		8760 hr/yr
EQT 0005	96-01e - Drying Line 23		22000 lb/hr	22000 lb/hr		8760 hr/yr
EQT 0006	96-02a - Boiler No. 5		66 MM BTU/hr	66 MM BTU/hr		8760 hr/yr
EQT 0007	96-02b - Boiler No. 6		66 MM BTU/hr	66 MM BTU/hr		8760 hr/yr
EQT 0008	96-02c - Boiler No. 7		97 MM BTU/hr	97 MM BTU/hr		8760 hr/yr
EQT 0009	96-02d - Boiler No. 8		97 MM BTU/hr	97 MM BTU/hr		8760 hr/yr
EQT 0010	96-02e - Portable Boiler		97 MM BTU/hr	97 MM BTU/hr		1488 hr/yr
EQT 0011	96-03a - Primary Flare		326 MM BTU/hr			8760 hr/yr
EQT 0012	96-03b - Auxiliary Relief Flare		326 MM BTU/hr			8760 hr/yr
EQT 0013	96-04 - Wastewater Treatment System					8760 hr/yr
EQT 0014	96-05a - North Cooling Tower		22500 gallons/min	22500 gallons/min		8760 hr/yr
EQT 0015	96-05b - South Cooling Tower		22500 gallons/min	22500 gallons/min		8760 hr/yr
EQT 0016	96-05c - Temporary Cooling Tower		22500 gallons/min	22500 gallons/min		8760 hr/yr
EQT 0018	96-06b - Additive Storage Tank (F-126)		29643 gallons			8760 hr/yr
EQT 0019	96-06c - Additive Storage Tank (F-135)		10125 gallons			8760 hr/yr
EQT 0020	96-06d - Additive Storage Tank (F-136)		10125 gallons			8760 hr/yr
EQT 0021	96-06e - Additive Storage Tank (F-137)		14400 gallons			8760 hr/yr
EQT 0022	96-06f - Additive Storage Tank (F-138)		14400 gallons			8760 hr/yr
EQT 0023	96-06g - Additive Storage Tank (F-139)		69797 gallons			8760 hr/yr
EQT 0024	96-06h - Additive Storage Tank (F-140)		39657 gallons			8760 hr/yr
EQT 0028	96-06l - Additive Storage Tank (F-144)		68174 gallons			8760 hr/yr
EQT 0029	96-06m - Additive Storage Tank (F-120)		10282 gallons			8760 hr/yr
EQT 0031	96-06o - Additive Storage Tank (F-436)		9180 gallons			8760 hr/yr
EQT 0032	96-06p - Additive Storage Tank (F-437)		11943 gallons			8760 hr/yr
EQT 0033	96-06q - Additive Storage Tank (F-443)		8121 gallons			8760 hr/yr
EQT 0034	96-06r - Additive Storage Tank (F-444)		8121 gallons			8760 hr/yr
EQT 0036	96-06t - Additive Storage Tank (F-485)		14675 gallons			8760 hr/yr
EQT 0037	96-06u - Acid Storage Tank (F-612)		3750 gallons			8760 hr/yr
EQT 0038	96-06v - Acid Storage Tank (F-614)		5300 gallons			8760 hr/yr
EQT 0039	96-06w - Acid Storage Tank (F-615)		60 gallons			8760 hr/yr
EQT 0040	96-06x - Acid Storage Tank (F-639)		60 gallons			8760 hr/yr
EQT 0042	96-07a - Solvent Storage Tank (F-127)		50937 gallons			8760 hr/yr
EQT 0043	96-07b - Solvent Storage Tank (F-128)		50937 gallons			8760 hr/yr
EQT 0046	96-09 - Fuel Storage Tank		264 gallons			8760 hr/yr
EQT 0047	96-12a - Monomer Storage Tank (F-103)		508366 gallons			8760 hr/yr
EQT 0048	96-12b - Monomer Storage Tank (F-125)		213000 gallons			8760 hr/yr

INVENTORIES

AI ID: 1244 - Firestone Polymers - Lake Charles Facility
Activity Number: PER20080001
Permit Number: 0520-00007-V2
Air - Title V Regular Permit Renewal

Subject Item Inventory:

ID	Description	Tank Volume	Max. Operating Rate	Normal Operating Rate	Contents	Operating Time
Lake Charles Facility						
EQT 0050	96-06z - Acid Storage Tank (F-647)	176 gallons				
EQT 0051	PE-06 - Emergency Firewater Pump Engine		575 horsepower	575 horsepower		
FUG 0001	96-10 - Process Fugitives					
FUG 0002	96-11 - Laboratory Fugitives					

Stack Information:

ID	Description	Velocity (ft/sec)	Flow Rate (cubic ft/min-actual)	Diameter (feet)	Discharge Area (square feet)	Height (feet)	Temperature (oF)
Lake Charles Facility							
EQT 0006	96-02a - Boiler No. 5			2.5		50	278
EQT 0007	96-02b - Boiler No. 6			2.5		50	278
EQT 0008	96-02c - Boiler No. 7			2.5		50	278
EQT 0009	96-02d - Boiler No. 8			2.5		50	278
EQT 0011	96-03a - Primary Flare	3.2	348	1.5		153	1000
EQT 0012	96-03b - Auxiliary Relief Flare	29.6	348	.5		80	1000
EQT 0014	96-05a - North Cooling Tower					45	72
EQT 0015	96-05b - South Cooling Tower					45	
EQT 0042	96-07a - Solvent Storage Tank (F-127)				.33		25
EQT 0043	96-07b - Solvent Storage Tank (F-128)				.33		25
EQT 0051	PE-06 - Emergency Firewater Pump Engine	65.2	3071	.79		24	871
FUG 0001	96-10 - Process Fugitives					72	

Relationships:**Subject Item Groups:**

ID	Group Type	Group Description
GRP 0004	Equipment Group	96-01 - Drying Lines Emission Cap
GRP 0005	Equipment Group	96-02 - Boilers Emission Cap
GRP 0006	Equipment Group	96-03 - Flare Header System Emission Cap
GRP 0007	Equipment Group	96-05 - Cooling Towers Emission Cap
GRP 0008	Equipment Group	96-06 - Low Pressure Storage Tanks Emission Cap
GRP 0009	Equipment Group	96-07 - Solvent Storage Tanks Cap
GRP 0010	Equipment Group	96-12 - Monomer Storage Tanks Emission Cap
UNF 0001	Unit or Facility Wide	LCF - Lake Charles Facility

INVENTORIES

AI ID: 1244 - Firestone Polymers - Lake Charles Facility
Activity Number: PER2008001
Permit Number: 0520-00007-V2
Air - Title V Regular Permit Renewal

Group Membership:

Group Membership:	ID	Description	Member of Groups
EQT 0001	96-01a - Drying Line 18		GRP0000000004
EQT 0002	96-01b - Drying Line 20		GRP0000000004
EQT 0003	96-01c - Drying Line 21		GRP0000000004
EQT 0004	96-01d - Drying Line 22		GRP0000000004
EQT 0005	96-01e - Drying Line 23		GRP0000000004
EQT 0006	96-02a - Boiler No. 5		GRP0000000005
EQT 0007	96-02b - Boiler No. 6		GRP0000000005
EQT 0008	96-02c - Boiler No. 7		GRP0000000005
EQT 0009	96-02d - Boiler No. 8		GRP0000000005
EQT 0010	96-02e - Portable Boiler		GRP0000000005
EQT 0011	96-03a - Primary Flare		GRP0000000006
EQT 0012	96-03b - Auxiliary Relief Flare		GRP0000000006
EQT 0014	96-05a - North Cooling Tower		GRP0000000007
EQT 0015	96-05b - South Cooling Tower		GRP0000000007
EQT 0016	96-05c - Temporary Cooling Tower		GRP0000000007
EQT 0018	96-06b - Additive Storage Tank (F-126)		GRP0000000008
EQT 0019	96-06c - Additive Storage Tank (F-135)		GRP0000000008
EQT 0020	96-06d - Additive Storage Tank (F-136)		GRP0000000008
EQT 0021	96-06e - Additive Storage Tank (F-137)		GRP0000000008
EQT 0022	96-06f - Additive Storage Tank (F-138)		GRP0000000008
EQT 0023	96-06g - Additive Storage Tank (F-139)		GRP0000000008
EQT 0024	96-06h - Additive Storage Tank (F-140)		GRP0000000008
EQT 0028	96-06l - Additive Storage Tank (F-144)		GRP0000000008
EQT 0029	96-06m - Additive Storage Tank (F-120)		GRP0000000008
EQT 0031	96-06o - Additive Storage Tank (F-436)		GRP0000000008
EQT 0032	96-06p - Additive Storage Tank (F-437)		GRP0000000008
EQT 0033	96-06q - Additive Storage Tank (F-443)		GRP0000000008
EQT 0034	96-06r - Additive Storage Tank (F-444)		GRP0000000008
EQT 0036	96-06t - Additive Storage Tank (F-485)		GRP0000000008
EQT 0037	96-06u - Acid Storage Tank (F-612)		GRP0000000008
EQT 0038	96-06v - Acid Storage Tank (F-614)		GRP0000000008
EQT 0039	96-06w - Acid Storage Tank (F-615)		GRP0000000008
EQT 0040	96-06x - Acid Storage Tank (F-639)		GRP0000000008
EQT 0042	96-07a - Solvent Storage Tank (F-127)		GRP0000000009
EQT 0043	96-07b - Solvent Storage Tank (F-128)		GRP0000000009
EQT 0047	96-12a - Monomer Storage Tank (F-103)		GRP0000000010
EQT 0048	96-12b - Monomer Storage Tank (F-125)		GRP0000000010
EQT 0050	96-06z - Acid Storage Tank (F-647)		GRP0000000008

NOTE: The UNF group relationship is not printed in this table. Every subject item is a member of the UNF group

INVENTORIES

AI ID: 1244 - Firestone Polymers - Lake Charles Facility
 Activity Number: PER2008001
 Permit Number: 0520-00007-V2
 Air - Title V Regular Permit Renewal

Annual Maintenance Fee:

Fee Number	Air Contaminant Source	Multiplier	Units Of Measure
0580	0580 Rubber Manufacture (Rated Capacity)	476	MM lbs/yr

SIC Codes:

2822	Synthetic rubber	AI 1244
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EMISSION RATES FOR CRITERIA POLLUTANTS

AI ID: 1244 - Firestone Polymers - Lake Charles Facility
 Activity Number: PER20080001
 Permit Number: 0520-00007-V2
 Air - Title V Regular Permit Renewal

Subject Item	CO			NOx			PM10			SO2			VOC		
	Avg lb/hr	Max lb/hr	Tons/Year												
Lake Charles Facility															
EQT 0001 98-01a															
EQT 0002 98-01b	0.67		0.08				0.06			<0.01			73.08		
EQT 0003 98-01c	0.67		0.08				0.06			<0.01			180.40		
EQT 0004 98-01d	0.67		0.08				0.06			<0.01			180.40		
EQT 0005 98-01e	0.67		0.08				0.06			<0.01			180.40		
EQT 0006 98-02a	0.36		11.16				0.53			0.04			0.38		
EQT 0007 98-02b	0.36		11.16				0.53			0.04			0.38		
EQT 0008 98-02c	1.82		6.75				0.78			0.06			0.56		
EQT 0009 98-02d	1.82		6.75				0.78			0.06			0.56		
EQT 0010 98-02e	8.58		5.11				0.78			0.06			0.56		
EQT 0011 98-03a	120.63		22.17										225.38		
EQT 0012 98-03b	120.63		22.17										225.38		
EQT 0013 98-04														2.24	2.69
EQT 0014 98-05a															9.81
EQT 0015 98-05b															
EQT 0016 98-05c															
EQT 0018 98-06b															
EQT 0019 98-06c															<0.001
EQT 0020 98-06d															0.01
EQT 0021 98-06e															0.02
EQT 0022 98-06f															0.17
EQT 0023 98-06g															0.11
EQT 0024 98-06h															0.07

EMISSION RATES FOR CRITERIA POLLUTANTS

AI ID: 1244 - Firestone Polymers - Lake Charles Facility

Activity Number: PER20080001

Permit Number: 0520-00007-V2

Air - Title V Regular Permit Renewal

Subject Item	CO			NOx			PM 10			SO2			VOC		
	Avg lb/hr	Max lb/hr	Tons/Year												
Lake Charles Facility															
EQT 0028 96-06*															
EQT 0029 96-06m															0.18
EQT 0031 96-06o															0.003
EQT 0032 96-06p															0.04
EQT 0033 96-06q															0.01
EQT 0034 96-06r															0.03
EQT 0036 96-06i															0.03
EQT 0042 96-07a															0.06
EQT 0043 96-07b															0.62
EQT 0046 96-09															0.62
EQT 0047 96-12*															0.05
EQT 0048 96-12b															1.26
EQT 0051 PE-06	0.35	0.35	0.01	6.12	6.12	0.16	0.06	0.06	<0.01	0.10	<0.01	0.13	0.13	<0.01	0.21
FUG 0001 96-10															0.58
FUG 0002 96-11															0.20
GRP 0004 96-01	1.33		5.84	1.59		6.95	0.12	0.53	0.01	0.04		315.19			16.84
GRP 0005 96-02	4.81		21.08	26.39		117.56	2.08	9.10	0.16	0.72		1.50			1380.52
GRP 0006 96-03	2.32		10.18	0.43		1.87						2.16			6.58
GRP 0007 96-05								6.76	29.61						9.45
GRP 0008 96-06															3.24
GRP 0009 96-07															0.37
GRP 0010 96-12															1.62
															2.58
															0.59

Note: Emission rates in bold are from alternate scenarios and are not included in permitted totals unless otherwise noted in a footnote.

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 1244 - Firestone Polymers - Lake Charles Facility

Activity Number: PER20080001

Permit Number: 0520-00007-V2

Air - Title V Regular Permit Renewal

Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
EQT 0001 96-01a	Styrene		4.14	
	n-Hexane		22.40	
EQT 0002 96-01b	Styrene		5.06	
	n-Hexane		89.31	
EQT 0003 96-01c	Styrene		5.06	
	n-Hexane		89.31	
EQT 0004 96-01d	Styrene		5.06	
	n-Hexane		89.31	
EQT 0005 96-01e	Styrene		5.06	
	n-Hexane		89.31	
EQT 0011 96-03a	1,3-Butadiene		100.10	
	Styrene		0.16	
	n-Hexane		47.58	
EQT 0012 96-03b	1,3-Butadiene		100.10	
	Styrene		0.16	
	n-Hexane		47.58	
EQT 0013 96-04	1,3-Butadiene	0.127	0.152	0.556
	Acrolein	<0.001	<0.001	<0.001
	Benzene	<0.001	<0.001	<0.001
	Ethyl benzene	<0.001	<0.001	<0.001
	Styrene	0.03	0.04	0.13
	Xylene (mixed isomers)	<0.001	<0.001	<0.001
	n-Hexane	0.88	1.05	3.83
EQT 0014 96-05a	Chlorine		10.00	
EQT 0015 96-05b	Chlorine		10.00	
EQT 0016 96-05c	Chlorine		10.00	
EQT 0037 96-06u	Sulfuric acid		<0.001	
EQT 0038 96-06v	Sulfuric acid		<0.001	
EQT 0039 96-06w	Sulfuric acid		<0.001	
EQT 0040 96-06x	Sulfuric acid		<0.001	
EQT 0042 96-07a	Styrene		0.01	
	n-Hexane		0.40	
EQT 0043 96-07b	Styrene		0.01	

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 1244 - Firestone Polymers - Lake Charles Facility

Activity Number: PER20080001

Permit Number: 0520-00007-V2

Air - Title V Regular Permit Renewal

Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
EQT 0043 96-07b	n-Hexane		0.40	
EQT 0047 96-12a	Styrene		0.58	
EQT 0048 96-12b	Styrene		0.20	
EQT 0050 96-06z	Sulfuric acid		<0.001	
FUG 0001 96-10	1,3-Butadiene	0.711		3.11
	Styrene	0.87		3.80
	n-Hexane	7.28		32.57
FUG 0002 96-11	n-Hexane	2.61		11.45
GRP 0004 96-01	Styrene	10.30		45.13
	n-Hexane	196.78		861.90
GRP 0006 96-03	1,3-Butadiene	0.15		0.65
	Styrene	<0.01		0.05
	n-Hexane	0.69		3.03
GRP 0007 96-05	Chlorine	0.91		4.00
GRP 0008 96-06	Sulfuric acid	0.001		0.01
GRP 0009 96-07	Styrene	0.003		0.01
	n-Hexane	0.24		1.07
GRP 0010 96-12	Styrene	0.59		2.58
UNF 0001 LCF	1,3-Butadiene			4.32
	Acrolein			<0.001
	Benzene			<0.001
	Chlorine			4.00
	Ethyl benzene			<0.001
	Styrene			51.70
	Sulfuric acid			0.01
	Xylene (mixed isomers)			<0.001
	n-Hexane			913.85

Note: Emission rates in bold are from alternate scenarios and are not included in permitted totals unless otherwise noted in a footnote. Emission rates attributed to the UNF reflect the sum of the TAP/HAP limits of the individual emission points (or caps) under this permit, but do not constitute an emission cap.

SPECIFIC REQUIREMENTS

AI ID: 1244 - Firestone Polymers - Lake Charles Facility
Activity Number: PER20080001
Permit Number: 0520-00007-V2
Air - Title V Regular Permit Renewal

EQT 0001 96-01a - Drying Line 18

- 1 [40 CFR 52.21] Compliance with NESHAP, 40 CFR 63, Subpart U has been determined to be compliance with BACT in accordance with Prevention of Significant Deterioration (PSD) requirements under Permit No. PSD-LA-672 dated July 30, 2003. [40 CFR 52.21, LAC 33:III.509]
 Organic HAP <= 10 kg/Mg crumb rubber (dry weight). Subpart U. [40 CFR 63.494(a)(2)(i)]
 Which Months: All Year Statistical Basis: Monthly average
- 2 [40 CFR 63.494(a)(2)(i)] Demonstrate compliance with the residual organic HAP limitations in 40 CFR 63.494(a) by using the periodic sampling procedures in 40 CFR 63.495(b), or using the stripper parameter monitoring procedures in 40 CFR 63.495(c). Determine the monthly weighted average residual organic HAP content for each month in which any portion of the back-end of an elastomer production process is in operation. Determine a single monthly weighted average for all back-end process operations at the affected source. Subpart U. [40 CFR 63.495(a)]
- 3 [40 CFR 63.495(a)] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in 40 CFR 63.498(a)(1)-(3) and (b)(1)-(3), as applicable. Subpart U.
- 4 [40 CFR 63.498] Submit report: Due within 180 days after a process change, as defined in 40 CFR 63.496(d), is made that causes the redetermination of the compliance status for the back-end process operations, as specified in 40 CFR 63.506(e)(7)(iii). Include in the report a description of the process change; the results of the redetermination of the compliance status, determined in accordance with 40 CFR 63.496(b), and recorded in accordance with 40 CFR 63.498(d)(1), and documentation of the re-establishment of a parameter level for the control or recovery device, defined as either a maximum or minimum operating parameter, that indicates proper operation of the control or recovery device, in accordance with 40 CFR 63.497(c) and recorded in accordance with 40 CFR 63.498(g)(2). Subpart U. [40 CFR 63.499(d)]
- 5 [40 CFR 63.499(d)] Conduct performance testing in accordance with 40 CFR 63.7(a)(1), (a)(3), (d), (e)(1), (e)(2), (e)(4), (g), and (h), with the exceptions specified in 40 CFR 63.504(a)(1) through (a)(5) and the additions specified in 40 CFR 63.504(b). Subpart U. [40 CFR 63.504(a)]
- 6 [40 CFR 63.504(a)] Submit recompliance determination report required by 40 CFR 63.499(d) within 180 days after the process change. Subpart U. [40 CFR 63.506(e)(7)(iii)]
- 7 [40 CFR 63.506(e)(7)(iii)] Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Provide necessary sampling and testing facilities, exclusive of instruments and sensing devices, as needed to properly determine the emission of toxic air pollutants, upon request of the department.
- 8 [LAC 33:III.5109.A] Provide emission testing facilities as specified in LAC 33:III.5113.B.4 through e.
- 9 [LAC 33:III.5113.B.3] Analyze samples and determine emissions within 30 days after each emission test has been completed.
- 10 [LAC 33:III.5113.B.4] Submit notification: Due to the Office of Environmental Assessment, Environmental Technology Division at least 30 days before the emission test. Submit notification of emission test to allow DEQ the opportunity to have an observer present during the test.
- 11 [LAC 33:III.5113.B.5] Maintain and operate each monitoring system in a manner consistent with good air pollution control practices for minimizing emissions. Repair or adjust any breakdown or malfunction of the monitoring system as soon as practicable after its occurrence.
- 12 [LAC 33:III.5113.B.7] Conduct performance evaluation of the monitoring system when required at any other time requested by DEQ.
- 13 [LAC 33:III.5113.C.1]
- 14 [LAC 33:III.5113.C.2]

EQT 0002 96-01b - Drying Line 20

- 15 [40 CFR 52.21] Compliance with NESHAP, 40 CFR 63, Subpart U has been determined to be compliance with BACT in accordance with Prevention of Significant Deterioration (PSD) requirements under Permit No. PSD-LA-672 dated July 30, 2003. [40 CFR 52.21, LAC 33:III.509]
 Organic HAP <= 10 kg/Mg crumb rubber (dry weight). Subpart U. [40 CFR 63.494(a)(2)(i)]
 Which Months: All Year Statistical Basis: Monthly average

SPECIFIC REQUIREMENTS

AI ID: 1244 - Firestone Polymers - Lake Charles Facility
Activity Number: PER20080001
Permit Number: 0520-00007-V2
Air - Title V Regular Permit Renewal

EQT 0002 96-01b - Drying Line 20

- 17 [40 CFR 63.495(a)] Demonstrate compliance with the residual organic HAP limitations in 40 CFR 63.494(a) by using the periodic sampling procedures in 40 CFR 63.495(b), or using the stripper parameter monitoring procedures in 40 CFR 63.495(c). Determine the monthly weighted average residual organic HAP content for each month in which any portion of the back-end of an elastomer production process is in operation. Determine a single monthly weighted average for all back-end process operations at the affected source. Subpart U. [40 CFR 63.495(a)]
- Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in 40 CFR 63.498(a)(1)-(3) and (b)(1)-(3), as applicable. Subpart U.
- 18 [40 CFR 63.498] Submit report: Due within 180 days after a process change, as defined in 40 CFR 63.496(d), is made that causes the redetermination of the compliance status for the back-end process operations, as specified in 40 CFR 63.506(e)(7)(iii). Include in the report a description of the process change; the results of the redetermination of the compliance status, determined in accordance with 40 CFR 63.496(b), and recorded in accordance with 40 CFR 63.498(d)(1), and documentation of the re-establishment of a parameter level for the control or recovery device, defined as either a maximum or minimum operating parameter, that indicates proper operation of the control or recovery device, in accordance with 40 CFR 63.497(c) and recorded in accordance with 40 CFR 63.498(d)(2). Subpart U. [40 CFR 63.499(d)]
- Conduct performance testing in accordance with 40 CFR 63.7(a)(1), (a)(3), (d), (e)(1), (e)(2), (e)(4), (g), and (h), with the exceptions specified in 40 CFR 63.504(a)(1) through (a)(5) and the additions specified in 40 CFR 63.504(b). Subpart U. [40 CFR 63.504(a)]
- 20 [40 CFR 63.504(a)] Submit recompliance determination report required by 40 CFR 63.499(d) within 180 days after the process change. Subpart U. [40 CFR 63.506(e)(7)(iii)]
- 21 [40 CFR 63.506(e)(7)(iii)] Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).
- 22 [LAC 33:III.1101.B] Which Months: All Year Statistical Basis: None specified
 Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).
- 23 [LAC 33:III.1311.C] Which Months: All Year Statistical Basis: Six-minute average
 Total suspended particulate <= 0.6 lb/MMBtu of heat input (Complies by using sweet natural gas as fuel).
- 24 [LAC 33:III.1313.C] Which Months: All Year Statistical Basis: None specified
 Equipment/operational data recordkeeping by electronic or hard copy continuously. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III.Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request.
- 25 [LAC 33:III.1513] Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.
- 26 [LAC 33:III.5109.A] Ensure that all testing done to determine the emission of toxic air pollutants, upon request by the department, is conducted by qualified personnel.
- 27 [LAC 33:III.5113.B.1] Provide necessary sampling and testing facilities, exclusive of instruments and sensing devices, as needed to properly determine the emission of toxic air pollutants, upon request of the department.
- 28 [LAC 33:III.5113.B.3] Provide emission testing facilities as specified in LAC 33:III.5113.B.4.a through e.
- 29 [LAC 33:III.5113.B.4] Analyze samples and determine emissions within 30 days after each emission test has been completed.
- 30 [LAC 33:III.5113.B.5]

SPECIFIC REQUIREMENTS

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EQT 0002 96-01b - Drying Line 20

31 [LAC 33:III.5113.B.7]

Submit notification: Due to the Office of Environmental Assessment, Environmental Technology Division at least 30 days before the emission test. Submit notification of emission test to allow DEQ the opportunity to have an observer present during the test.

32 [LAC 33:III.5113.C.1]

Maintain and operate each monitoring system in a manner consistent with good air pollution control practices for minimizing emissions. Repair or adjust any breakdown or malfunction of the monitoring system as soon as practicable after its occurrence.

33 [LAC 33:III.5113.C.2]

Conduct performance evaluation of the monitoring system when required at any other time requested by DEQ.

EQT 0003 96-01c - Drying Line 21

34 [40 CFR 52.21]

Compliance with NESHPAP, 40 CFR 63, Subpart U has been determined to be compliance with BACT in accordance with Prevention of Significant Deterioration (PSD) requirements under Permit No. PSD-LA-672 dated July 30, 2003. [40 CFR 52.21, LAC 33:III.509]

35 [40 CFR 63.494(a)(2)(i)]

Organic HAP <= 10 kg/Mg crumb rubber (dry weight). Subpart U. [40 CFR 63.494(a)(2)(i)]

36 [40 CFR 63.495(a)]

Which Months: All Year Statistical Basis: Monthly average

37 [40 CFR 63.498(a)(1)-(3)]

Demonstrate compliance with the residual organic HAP limitations in 40 CFR 63.494(a) by using the periodic sampling procedures in 40 CFR 63.495(b), or using the stripper parameter monitoring procedures in 40 CFR 63.495(c). Determine the monthly weighted average residual organic HAP content for each month in which any portion of the back-end of an elastomer production process is in operation. Determine a single monthly weighted average for all back-end process operations at the affected source. Subpart U. [40 CFR 63.495(a)]

38 [40 CFR 63.499(d)]

Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in 40 CFR 63.498(a)(1)-(3) and (b)(1)-(3), as applicable. Subpart U.

39 [40 CFR 63.504(a)]

Submit report: Due within 180 days after a process change, as defined in 40 CFR 63.496(d), is made that causes the redetermination of the compliance status for the back-end process operations, as specified in 40 CFR 63.506(e)(7)(iii). Include in the report a description of the process change; the results of the redetermination of the compliance status, determined in accordance with 40 CFR 63.496(b), and recorded in accordance with 40 CFR 63.498(d)(1), and documentation of the re-establishment of a parameter level for the control or recovery device, defined as either a maximum or minimum operating parameter, that indicates proper operation of the control or recovery device, in accordance with 40 CFR 63.497(c) and recorded in accordance with 40 CFR 63.498(d)(2). Subpart U. [40 CFR 63.499(d)]

40 [40 CFR 63.504(a)(5)]

Conduct performance testing in accordance with 40 CFR 63.7(a)(1), (a)(3), (d), (e)(1), (e)(2), (e)(4), (g), and (h), with the exceptions specified in 40 CFR 63.504(a)(1) through (a)(5) and the additions specified in 40 CFR 63.504(b). Subpart U. [40 CFR 63.504(a)]

41 [LAC 33:III.1101.B]

Submit recompliance determination report required by 40 CFR 63.499(d) within 180 days after the process change. Subpart U. [40 CFR 63.506(e)(7)(iii)]

42 {LAC 33:III.1311.C}

Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).

43 [LAC 33:III.1313.C]

Which Months: All Year Statistical Basis: None specified Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).

Which Months: All Year Statistical Basis: Six-minute average Total suspended particulate <= 0.6 lb/MMBTU of heat input (Complies by using sweet natural gas as fuel).

Which Months: All Year Statistical Basis: None specified

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EQT 0003 96-01c - Drying Line 21

- 44 [LAC 33:III.1513] Equipment/operational data recordkeeping by electronic or hard copy continuously. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request.
- 45 [LAC 33:III.5109.A] Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.
- 46 [LAC 33:III.5113.B.1] Ensure that all testing done to determine the emission of toxic air pollutants, upon request by the department, is conducted by qualified personnel.
- 47 [LAC 33:III.5113.B.3] Provide necessary sampling and testing facilities, exclusive of instruments and sensing devices, as needed to properly determine the emission of toxic air pollutants, upon request of the department.
- 48 [LAC 33:III.5113.B.4] Provide emission testing facilities as specified in LAC 33:III.5113.B.4.a through e.
- 49 [LAC 33:III.5113.B.5] Analyze samples and determine emissions within 30 days after each emission test has been completed.
- 50 [LAC 33:III.5113.B.7] Submit notification: Due to the Office of Environmental Assessment, Environmental Technology Division at least 30 days before the emission test. Submit notification of emission test to allow DEQ the opportunity to have an observer present during the test.
- 51 [LAC 33:III.5113.C.1] Maintain and operate each monitoring system in a manner consistent with good air pollution control practices for minimizing emissions. Repair or adjust any breakdown or malfunction of the monitoring system as soon as practicable after its occurrence.
- 52 [LAC 33:III.5113.C.2] Conduct performance evaluation of the monitoring system when required at any other time requested by DEQ.

EQT 0004 96-01d - Drying Line 22

- 53 [40 CFR 52.21] Compliance with NESHAP, 40 CFR 63, Subpart U has been determined to be compliance with BACT in accordance with Prevention of Significant Deterioration (PSD) requirements under Permit No. PSD-LA-672 dated July 30, 2003. [40 CFR 52.21, LAC 33:III.509]
- 54 [40 CFR 63.494(a)(2)(i)] Organic HAP <= 10 kg/Mg crumb rubber (dry weight). Subpart U. [40 CFR 63.494(a)(2)(i)]
- 55 [40 CFR 63.495(a)] Which Months: All Year Statistical Basis: Monthly average Demonstrate compliance with the residual organic HAP limitations in 40 CFR 63.494(a) by using the periodic sampling procedures in 40 CFR 63.495(b), or using the stripper parameter monitoring procedures in 40 CFR 63.495(c). Determine the monthly weighted average residual organic HAP content for each month in which any portion of the back-end of an elastomer production process is in operation. Determine a single monthly weighted average for all back-end process operations at the affected source. Subpart U. [40 CFR 63.495(a)]
- 56 [40 CFR 63.498] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in 40 CFR 63.498(a)(1)-(3) and (b)(1)-(3), as applicable. Subpart U.
- 57 [40 CFR 63.499(d)] Submit report: Due within 180 days after a process change, as defined in 40 CFR 63.496(d), is made that causes the redetermination of the compliance status for the back-end process operations, as specified in 40 CFR 63.506(e)(7)(iii). Include in the report a description of the process change; the results of the redetermination of the compliance status, determined in accordance with 40 CFR 63.496(b), and recorded in accordance with 40 CFR 63.498(d)(1), and documentation of the re-establishment of a parameter level for the control or recovery device, defined as either a maximum or minimum operating parameter, that indicates proper operation of the control or recovery device, in accordance with 40 CFR 63.497(c) and recorded in accordance with 40 CFR 63.498(d)(2). Subpart U. [40 CFR 63.499(d)]
- 58 [40 CFR 63.504(a)] Conduct performance testing in accordance with 40 CFR 63.7(a)(1), (a)(3), (d), (e)(1), (e)(2), (e)(4), (g), and (h), with the exceptions specified in 40 CFR 63.504(a)(1) through (a)(5) and the additions specified in 40 CFR 63.504(b). Subpart U. [40 CFR 63.504(a)]

SPECIFIC REQUIREMENTS

AI ID: 1244 - Firestone Polymers - Lake Charles Facility
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EQT 0004 96-01d - Drying Line 22

- 59 [40 CFR 63.506(e)(7)(iii)] Submit recompliance determination report required by 40 CFR 63.499(d) within 180 days after the process change. Subpart U. [40 CFR 63.506(e)(7)(iii)]
- 60 [LAC 33:III.1101.B] Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).
- 61 [LAC 33:III.1311.C] Which Months: All Year Statistical Basis: None specified
 Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).
- 62 [LAC 33:III.1313.C] Which Months: All Year Statistical Basis: Six-minute average
 Total suspended particulate <= 0.6 lb/MMBTU of heat input (Complies by using sweet natural gas as fuel).
- 63 [LAC 33:III.1513] Which Months: All Year Statistical Basis: None specified
 Equipment/operational data recordkeeping by electronic or hard copy continuously. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III.111. Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request.
- 64 [LAC 33:III.5109.A] Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.
- 65 [LAC 33:III.5113.B.1] Ensure that all testing done to determine the emission of toxic air pollutants, upon request by the department, is conducted by qualified personnel.
- 66 [LAC 33:III.5113.B.3] Provide necessary sampling and testing facilities, exclusive of instruments and sensing devices, as needed to properly determine the emission of toxic air pollutants, upon request of the department.
- 67 [LAC 33:III.5113.B.4] Provide emission testing facilities as specified in LAC 33:III.5113.B.4.a through e.
- 68 [LAC 33:III.5113.B.5] Analyze samples and determine emissions within 30 days after each emission test has been completed.
- 69 [LAC 33:III.5113.B.7] Submit notification: Due to the Office of Environmental Assessment, Environmental Technology Division at least 30 days before the emission test. Submit notification of emission test to allow DEQ the opportunity to have an observer present during the test.
 Maintain and operate each monitoring system in a manner consistent with good air pollution control practices for minimizing emissions. Repair or adjust any breakdown or malfunction of the monitoring system as soon as practicable after its occurrence.
 Conduct performance evaluation of the monitoring system when required at any other time requested by DEQ.

EQT 0005 96-01e - Drying Line 23

- 72 [40 CFR 52.21] Compliance with NESHAP, 40 CFR 63, Subpart U has been determined to be compliance with BACT in accordance with Prevention of Significant Deterioration (PSD) requirements under Permit No. PSD-LA-672 dated July 30, 2003. [40 CFR 63.494(a)(2)(i)]
- 73 [40 CFR 63.494(a)(2)(i)] Organic HAP <= 10 kg/Mg crumb rubber (dry weight). Subpart U. [40 CFR 63.494(a)(2)(i)]
- 74 [40 CFR 63.495(a)] Which Months: All Year Statistical Basis: Monthly average
 Demonstrate compliance with the residual organic HAP limitations in 40 CFR 63.494(a) by using the periodic sampling procedures in 40 CFR 63.495(b), or using the stripper parameter monitoring procedures in 40 CFR 63.495(c). Determine the monthly weighted average residual organic HAP content for each month in which any portion of the back-end of an elastomer production process is in operation. Determine a single monthly weighted average for all back-end process operations at the affected source. Subpart U. [40 CFR 63.495(a)]

SPECIFIC REQUIREMENTS

AI ID: 1244 - Firestone Polymers - Lake Charles Facility
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EQT 0005 96-01e - Drying Line 23

- 75 [40 CFR 63.498] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in 40 CFR 63.498(a)(1)-(3) and (b)(1)-(3), as applicable. Subpart U.
- 76 [40 CFR 63.499(d)] Submit report: Due within 180 days after a process change, as defined in 40 CFR 63.496(d), is made that causes the redetermination of the compliance status for the back-end process operations, as specified in 40 CFR 63.506(e)(7)(iii). Include in the report a description of the process change; the results of the redetermination of the compliance status, determined in accordance with 40 CFR 63.496(b), and recorded in accordance with 40 CFR 63.498(d)(1), and documentation of the re-establishment of a parameter level for the control or recovery device, defined as either a maximum or minimum operating parameter, that indicates proper operation of the control or recovery device, in accordance with 40 CFR 63.497(c) and recorded in accordance with 40 CFR 63.498(d)(2). Subpart U. [40 CFR 63.499(d)]
- 77 [40 CFR 63.504(a)] Conduct performance testing in accordance with 40 CFR 63.7(a)(1), (a)(3), (d), (e)(1), (e)(2), (e)(4), (g), and (h), with the exceptions specified in 40 CFR 63.504(a)(1) through (a)(5) and the additions specified in 40 CFR 63.504(b). Subpart U. [40 CFR 63.504(a)]
- 78 [40 CFR 63.506(e)(7)(iii)] Submit recompliance determination report required by 40 CFR 63.499(d) within 180 days after the process change. Subpart U. [40 CFR 63.506(e)(7)(iii)]
- 79 [LAC 33:III.1101.B] Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).
- 80 [LAC 33:III.1311.C] Which Months: All Year Statistical Basis: None specified Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).
- 81 [LAC 33:III.1313.C] Which Months: All Year Statistical Basis: Six-minute average Total suspended particulate <= 0.6 lb/MMBTU of heat input (Complies by using sweet natural gas as fuel).
- 82 [LAC 33:III.1513] Equipment/operational data recordkeeping by electronic or hard copy continuously. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III.Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request.
- 83 [LAC 33:III.5109.A] Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.
- 84 [LAC 33:III.5113.B.1] Ensure that all testing done to determine the emission of toxic air pollutants, upon request by the department, is conducted by qualified personnel.
- 85 [LAC 33:III.5113.B.3] Provide necessary sampling and testing facilities, exclusive of instruments and sensing devices, as needed to properly determine the emission of toxic air pollutants, upon request of the department.
- 86 [LAC 33:III.5113.B.4] Provide emission testing facilities as specified in LAC 33:III.5113.B.4.a through e.
- 87 [LAC 33:III.5113.B.5] Analyze samples and determine emissions within 30 days after each emission test has been completed.
- 88 [LAC 33:III.5113.B.7] Submit notification: Due to the Office of Environmental Assessment, Environmental Technology Division at least 30 days before the emission test. Submit notification of emission test to allow DEQ the opportunity to have an observer present during the test.
- 89 [LAC 33:III.5113.C.1] Maintain and operate each monitoring system in a manner consistent with good air pollution control practices for minimizing emissions. Repair or adjust any breakdown or malfunction of the monitoring system as soon as practicable after its occurrence.
- 90 [LAC 33:III.5113.C.2] Conduct performance evaluation of the monitoring system when required at any other time requested by DEQ.

SPECIFIC REQUIREMENTS

AI ID: 1244 - Firestone Polymers - Lake Charles Facility
Activity Number: PER20080001
Permit Number: 0520-000-07-V2
Air - Title V Regular Permit Renewal

EQT 0006 96-02a - Boiler No. 5

- 91 [LAC 33:III.1101.B] Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).
 Which Months: All Year Statistical Basis: None specified
 Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).
 Which Months: All Year Statistical Basis: Six-minute average
 Total suspended particulate <= 0.6 lb/MMBTU of heat input (Complies by using sweet natural gas as fuel).
 Which Months: All Year Statistical Basis: None specified

Equipment/operational data recordkeeping by electronic or hard copy continuously. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III.Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request.

EQT 0007 96-02b - Boiler No. 6

- 95 [LAC 33:III.1101.B] Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).
 Which Months: All Year Statistical Basis: None specified
 Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).
 Which Months: All Year Statistical Basis: Six-minute average
 Total suspended particulate <= 0.6 lb/MMBTU of heat input (Complies by using sweet natural gas as fuel).
 Which Months: All Year Statistical Basis: None specified
 Equipment/operational data recordkeeping by electronic or hard copy continuously. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III.Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request.

EQT 0008 96-02c - Boiler No. 7

- 99 [LAC 33:III.1101.B] Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).
 Which Months: All Year Statistical Basis: None specified
 Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).
 Which Months: All Year Statistical Basis: Six-minute average

SPECIFIC REQUIREMENTS

AI ID: 1244 - Firestone Polymers - Lake Charles Facility
Activity Number: PER20080001
Permit Number: 0520-00007-V2
Air - Title V Regular Permit Renewal

EQT 0008 96-02c - Boiler No. 7

101 [LAC 33:III.1313.C]

102 [LAC 33:III.1513]

Total suspended particulate <= 0.6 lb/MMBTU of heat input (Complies by using sweet natural gas as fuel).

Which Months: All Year Statistical Basis: None specified

Equipment/operational data recordkeeping by electronic or hard copy continuously. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III.Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request.

EQT 0009 96-02d - Boiler No. 8

103 [LAC 33:III.1101.B]

Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).

Which Months: All Years Statistical Basis: None specified

Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).

Which Months: All Year Statistical Basis: Six-minute average

Total suspended particulate <= 0.6 lb/MMBTU of heat input (Complies by using sweet natural gas as fuel).

Which Months: All Year Statistical Basis: None specified

Equipment/operational data recordkeeping by electronic or hard copy continuously. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III.Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request.

EQT 0010 96-02e - Portable Boiler

107 [40 CFR 60.48c(g)(2)]

Subpart Dc. [40 CFR 60.48c(g)(2)]

Fuel rate recordkeeping by electronic or hard copy monthly. Keep records of the amount of each fuel combusted during each calendar month. Subpart Dc. [40 CFR 60.48c(g)(2)]

Equipment/operational data recordkeeping by electronic or hard copy monthly. Keep records of the total amount of fuel for the unit delivered to the property during each calendar month. Subpart Dc. [40 CFR 60.48c(g)(3)]

Maintain all records required under 40 CFR 60.48c for a period of 2 years following the date of such record. Subpart Dc. [40 CFR 60.48c(i)]

Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).

Which Months: All Year Statistical Basis: None specified

Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).

Which Months: All Year Statistical Basis: Six-minute average

Total suspended particulate <= 0.6 lb/MMBTU of heat input (Complies by using sweet natural gas as fuel).

Which Months: All Year Statistical Basis: None specified

SPECIFIC REQUIREMENTS

AI ID: 1244 - Firestone Polymers - Lake Charles Facility
 Activity Number: PER20080001
 Permit Number: 0520-00007-V2
 Air - Title V Regular Permit Renewal

EQT 0010 96-02e - Portable Boiler

113 [LAC 33:III.1513]

Equipment/operational data recordkeeping by electronic or hard copy continuously. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III.Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request.

EQT 0011 96-03a - Primary Flare

114 [40 CFR 63.11(b)(1)]

115 [40 CFR 63.11(b)(3)]

116 [40 CFR 63.11(b)(4)]

117 [40 CFR 63.11(b)(5)]

118 [40 CFR 63.11(b)(5)]

119 [40 CFR 63.11(b)(6)(ii)]

120 [40 CFR 63.11(b)(7)(xi)]

121 [LAC 33:III.1105]

122 [LAC 33:III.1105]

123 [LAC 33:III.1107]

Monitor flares to assure that they are operated and maintained in conformance with their designs. Subpart A. [40 CFR 63.11(b)(1)]
 Operate at all times when emissions may be vented to the flare. Subpart A. [40 CFR 63.11(b)(3)]
 Design and operate for no visible emissions, as determined using Test Method 22 in Appendix A of 40 CFR 60, except for periods not to exceed a total of 5 minutes during any two consecutive hours. Subpart A. [40 CFR 63.11(b)(4)]
 Operate with a flame present at all times. Subpart A. [40 CFR 63.11(b)(5)]
 Presence of a flame monitored by flame monitor continuously. Use a thermocouple or any other equivalent device to detect the presence of a flame. Subpart A. [40 CFR 63.11(b)(5)]
 Which Months: All Year Statistical Basis: None specified
 Heat content >= 300 BTU/scf (11.2 MJ/sec). The facility uses a calorimeter to measure heat content of the gas being combusted and a thermal anemometer to measure flow to the flare as per the alternate monitoring plan (AMP) approved by EPA via a letter dated September 2, 2005 in accordance with 40 CFR 60.13(h). Subpart A. [40 CFR 63.11(b)(6)(ii)]
 Which Months: All Year Statistical Basis: None specified
 Exit Velocity < 60 ft/sec (18.3 m/sec), as determined using the method specified in 40 CFR 63.11(b)(7)(i). Subpart A. [40 CFR 63.11(b)(7)(i)]
 Which Months: All Year Statistical Basis: None specified
 Opacity <= 20 percent, except for a combined total of six hours in any 10 consecutive day period, for burning in connection with pressure valve releases for control over process upsets.
 Which Months: All Year Statistical Basis: None specified
 Submit notification: Due to SPOC as soon as possible after the start of burning of pressure valve releases for control over process upsets. Notify in accordance with LAC 33:1.3923. Notification is required only if the upset cannot be controlled in six hours.
 Submit report: Due in writing to SPOC within seven calendar days after startup or shutdown, if flaring was not the result of failure to maintain or repair equipment. Submit report if requesting exemption from the provisions of LAC 33:III.1105. Explain the conditions and duration of the startup or shutdown and list the steps necessary to remedy, prevent and limit the excess emissions. Minimize flaring and ensure that no ambient air quality standards are jeopardized.

EQT 0012 96-03b - Auxiliary Relief Flare

124 [40 CFR 63.11(b)(1)]

125 [40 CFR 63.11(b)(3)]

126 [40 CFR 63.11(b)(4)]

Monitor flares to assure that they are operated and maintained in conformance with their designs. Subpart A. [40 CFR 63.11(b)(1)]
 Operate at all times when emissions may be vented to the flare. Subpart A. [40 CFR 63.11(b)(3)]
 Design and operate for no visible emissions, as determined using Test Method 22 in Appendix A of 40 CFR 60, except for periods not to exceed a total of 5 minutes during any two consecutive hours. Subpart A. [40 CFR 63.11(b)(4)]

SPECIFIC REQUIREMENTS

AI ID: 1244 - Firestone Polymers - Lake Charles Facility
Activity Number: PER20080001
Permit Number: 0520-00007-V2
Air - Title V Regular Permit Renewal

EQT 0012 96-03b - Auxiliary Relief Flare

- Presence of a flame monitored by flame monitor continuously. Use a thermocouple or any other equivalent device to detect the presence of a flame. Subpart A. [40 CFR 63.11(b)(5)]
 Which Months: All Year Statistical Basis: None specified
 Operate with a flame present at all times. Subpart A. [40 CFR 63.11(b)(5)]
- Heat content >= 300 BTU/scf (11.2 MJ/scm). The facility uses a calorimeter to measure heat content of the gas being combusted and a thermal anemometer to measure flow to the flare as per the alternate monitoring plan (AMP) approved by EPA via a letter dated September 2, 2005 in accordance with 40 CFR 60.13(h). Subpart A. [40 CFR 63.11(b)(6)(ii)]
- Which Months: All Year Statistical Basis: None specified
 Exit Velocity < 60 ft/sec (18.3 m/sec), as determined using the method specified in 40 CFR 63.11(b)(7)(i). Subpart A. [40 CFR 63.11(b)(7)(i)]
- Which Months: All Year Statistical Basis: None specified
 Opacity <= 20 percent, except for a combined total of six hours in any 10 consecutive day period, for burning in connection with pressure valve releases for control over process upsets.
- Which Months: All Year Statistical Basis: None specified
 Submit notification: Due to SPOC as soon as possible after the start of burning of pressure valve releases for control over process upsets. Notify in accordance with LAC 33:1.3923. Notification is required only if the upset cannot be controlled in six hours.
 Submit report: Due in writing to SPOC within seven calendar days after startup or shutdown, if flaring was not the result of failure to maintain or repair equipment. Submit report if requesting exemption from the provisions of LAC 33:III.1.105. Explain the conditions and duration of the startup or shutdown and list the steps necessary to remedy, prevent and limit the excess emissions. Minimize flaring and ensure that no ambient air quality standards are jeopardized.
- Equipment/operational data recordkeeping by electronic or hard copy continuously. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III.Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request.

EQT 0013 96-04 - Wastewater Treatment System

- Group 2: Comply with the requirements of 40 CFR 63.132 through 63.148, except as specified in 40 CFR 63.501(a)(1) through (a)(23) and (c).
 Subpart U. [40 CFR 63.501(a)]
 Comply with the requirements for maintenance wastewater in 40 CFR 63.105, except as specified in 40 CFR 63.501(c). Subpart U. [40 CFR 63.501(b)]
- Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep records of the information specified in 40 CFR 63.506(d)(1) through (d)(9), unless an alternative recordkeeping system has been requested and approved as specified in 40 CFR 63.506(g), and except as provided in 40 CFR 63.506(h). Subpart U. [40 CFR 63.506(d)]
- Permittee shall control the emissions of 1,3-butadiene from stream No. 9 and No. 10 by 90 percent or greater. The modifications to achieve this goal shall be accomplished by June 2010. With the accomplishment of this goal and attaining a steady state operation the facility shall report the results to the Office of Environmental Compliance, Enforcement Division. Any delay beyond June 2010 shall be a violation of this permit and must be reported to the Office of Environmental Compliance, Enforcement Division.

SPECIFIC REQUIREMENTS

AI ID: 1244 - Firestone Polymers - Lake Charles Facility
Activity Number: PER20080001
Permit Number: 0520-00007-V2
Air - Title V Regular Permit Renewal

EQT 0014 96-05a - North Cooling Tower

- 139 [40 CFR 63.402]
 140 [40 CFR 63.404(a)]
 141 [40 CFR 63.404(c)]
 142 [40 CFR 63.406]
- Do not use chromium-based water treatment chemicals in any affected IPCT. Subpart Q.
 Conduct water sample analysis in accordance with the test methods specified in 40 CFR 63.404(a), if cooling water sample analysis is required by DEQ. Subpart Q. [40 CFR 63.404(a)]
 Equipment/operational data recordkeeping by electronic or hard copy continuously. Maintain records of water treatment chemical purchases, including invoices and other documentation that includes date(s) of purchase or shipment, trade name or other information to identify composition of the product, and quantity of the product. Subpart Q. [40 CFR 63.404(c)]
 Equipment/operational data recordkeeping by electronic or hard copy as needed. Maintain copies of the initial notification and the notification of compliance status as required by 40 CFR 63.405 for a period of at least 5 years onsite. Subpart Q.

EQT 0015 96-05b - South Cooling Tower

- 143 [40 CFR 63.402]
 144 [40 CFR 63.404(a)]
 145 [40 CFR 63.404(c)]
 146 [40 CFR 63.406]
- Do not use chromium-based water treatment chemicals in any affected IPCT. Subpart Q.
 Conduct water sample analysis in accordance with the test methods specified in 40 CFR 63.404(a), if cooling water sample analysis is required by DEQ. Subpart Q. [40 CFR 63.404(a)]
 Equipment/operational data recordkeeping by electronic or hard copy continuously. Maintain records of water treatment chemical purchases, including invoices and other documentation that includes date(s) of purchase or shipment, trade name or other information to identify composition of the product, and quantity of the product. Subpart Q. [40 CFR 63.404(c)]
 Equipment/operational data recordkeeping by electronic or hard copy as needed. Maintain copies of the initial notification and the notification of compliance status as required by 40 CFR 63.405 for a period of at least 5 years onsite. Subpart Q.

EQT 0016 96-05c - Temporary Cooling Tower

- 147 [40 CFR 63.402]
- Do not use chromium-based water treatment chemicals in any affected IPCT. Subpart Q.

EQT 0042 96-07a - Solvent Storage Tank (F-127)

- 148 [40 CFR 63.484(a)]
 149 [40 CFR 63.506(d)]
 150 [LAC 33.III.2.I03.B]
 151 [LAC 33.III.2.I03.C.1.b]
- Comply with the requirements of 40 CFR 63.119 through 63.123 and 63.148, with the differences noted in 40 CFR 63.484(b) through (s).
 Subpart U. [40 CFR 63.484(a)]
 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep records of the information specified in 40 CFR 63.506(d)(1) through (d)(9), unless an alternative recordkeeping system has been requested and approved as specified in 40 CFR 63.506(g), and except as provided in 40 CFR 63.506(h). Subpart U. [40 CFR 63.506(d)]
 Equip with a submerged fill pipe.
 Equip internal floating roof with a mechanical shoe seal (metallic-type shoe seal) consisting of a metal sheet held vertically against the wall of the storage vessel by springs or weighted levers and connected by braces to the floating roof. A flexible coated fabric (envelope) spans the annular space between the metal sheet and the floating roof.

SPECIFIC REQUIREMENTS

AI ID: 1244 - Firestone Polymers - Lake Charles Facility
Activity Number: PER20080001
Permit Number: 0520-00007-V2
Air - Title V Regular Permit Renewal

EQT 0042 96-07a - Solvent Storage Tank (F-127)

- Provide each opening in the internal floating roof (except rim space vents and automatic bleeder vents) with a projection below the liquid surface. In addition, provide each opening (except for leg sleeves, bleeder vents, rim space vents, column wells, ladder wells, sample wells, and stub drains) with a cover equipped with a gasket. Equip automatic bleeder vents and rim space vents with gaskets and equip ladder wells with a sliding cover.
- Equip with an internal floating roof consisting of a pontoon type roof, double deck roof, or internal floating cover which will rest or float on the surface of the liquid contents and is equipped with a closure seal to close the space between the roof edge and tank wall. All tank gauging and sampling devices will be gas-tight except when gauging or sampling is taking place.
- Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3.a-e.
- Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep records of the information specified in LAC 33:III.2103.I.1 - 7, as applicable.

EQT 0043 96-07b - Solvent Storage Tank (F-128)

- Comply with the requirements of 40 CFR 63.119 through 63.123 and 63.148, with the differences noted in 40 CFR 63.484(b) through (s).
- Subpart U. [40 CFR 63.484(a)]
 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep records of the information specified in 40 CFR 63.506(d)(1) through (d)(9), unless an alternative recordkeeping system has been requested and approved as specified in 40 CFR 63.506(g), and except as provided in 40 CFR 63.506(h). Subpart U. [40 CFR 63.506(d)]
- Equip with a submerged fill pipe.
- Equip internal floating roof with a mechanical shoe seal (metallic-type shoe seal) consisting of a metal sheet held vertically against the wall of the storage vessel by springs or weighted levers and connected by braces to the floating roof. A flexible coated fabric (envelope) spans the annular space between the metal sheet and the floating roof.
- Provide each opening in the internal floating roof (except rim space vents and automatic bleeder vents) with a projection below the liquid surface. In addition, provide each opening (except for leg sleeves, bleeder vents, rim space vents, column wells, ladder wells, sample wells, and stub drains) with a cover equipped with a gasket. Equip automatic bleeder vents and rim space vents with gaskets and equip ladder wells with a sliding cover.
- Equip with an internal floating roof consisting of a pontoon type roof, double deck roof, or internal floating cover which will rest or float on the surface of the liquid contents and is equipped with a closure seal to close the space between the roof edge and tank wall. All tank gauging and sampling devices will be gas-tight except when gauging or sampling is taking place.
- Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3.a-e.
- Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep records of the information specified in LAC 33:III.2103.I.1 - 7, as applicable.

EQT 0046 96-09 - Fuel Storage Tank

- Equip with a submerged fill pipe.
- Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3.a-e.

SPECIFIC REQUIREMENTS

AI ID: 1244 - Firestone Polymers - Lake Charles Facility
Activity Number: PER20080001
Permit Number: 0520-000-07-V2
Air - Title V Regular Permit Renewal

EQT 0046 96-09 - Fuel Storage Tank

166 [LAC 33:III.2103.1]

Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep records of the information specified in LAC 33:III.2103.1.1 - 7, as applicable.

EQT 0051 PE-06 - Emergency Firewater Pump Engine

- 167 [40 CFR 60.4205(c)] Carbon monoxide <= 2.6 g/BHP-hr. Subpart III. [40 CFR 60.4205(c)]
- 168 [40 CFR 60.4205(c)] Which Months: All Year Statistical Basis: None specified Particulate matter (10 microns or less) <= 0.40 g/BHP-hr (0.15 g/KW-hr). Subpart III. [40 CFR 60.4205(c)]
- 169 [40 CFR 60.4205(c)] Which Months: All Year Statistical Basis: None specified Non-methane hydrocarbons plus Nitrogen oxides <= 7.8 g/BHP-hr. Subpart III. [40 CFR 60.4205(c)]
- 170 [40 CFR 60.4206] Which Months: All Year Statistical Basis: None specified Operate and maintain stationary CI ICE according to the manufacturer's written instructions or procedures developed by the owner or operator that are approved by the engine manufacturer, over the entire life of the engine. Subpart III.
- 171 [40 CFR 60.4207(a)] Beginning October 1, 2007, use diesel fuel that meets the requirements of 40 CFR 80.510(a). [40 CFR 80.510(a)]
- 172 [40 CFR 60.4207(b)] Beginning October 1, 2010, use diesel fuel that meets the requirements of 40 CFR 80.510(b) for nonroad diesel fuel. [40 CFR 80.510(b)].
- 173 [40 CFR 60.4207(c)] Subpart III. [40 CFR 60.4207(b)] Owners and operators of pre-2011 model year stationary CI-ICE subject to this subpart may petition the Administrator for approval to use remaining non-compliant fuel that does not meet the fuel requirements of paragraphs (a) and (b). This approval is will be valid for six months from the approval date and must be renewed by a new request if required beyond six months. [40 CFR 60.4207(c)]
- 174 [40 CFR 60.4209(a)] Operating time monitored by hour/time monitor continuously during operation. Install a non-resettable hour meter prior to startup of the engine. Subpart III. [40 CFR 60.4209(a)]
- 175 [40 CFR 60.4211(e)] Which Months: All Year Statistical Basis: None specified Emergency stationary ICE operations is limited to 100 hours per year. There is no time limit on the use of emergency stationary ICE in emergency situations. Any operation other than emergency operation, and maintenance and testing as permitted, is prohibited. Subpart III. [40 CFR 60.4211(e)]
- 176 [40 CFR 60.4214(b)] Operating time recordkeeping by electronic or hard copy upon occurrence of event. If the stationary CI internal combustion engine is an emergency stationary internal combustion engine, the owner is not required to submit an initial notification. Subpart III. [40 CFR 60.4214(b)]
- 177 [40 CFR 63.6645(f)] Shall submit an Initial Notification in accordance with 40 CFR 63.9(b)(2) not later than 120 calendar days after the effective date of the relevant standard, or within 120 days of start of construction, and include the information in paragraphs (i) through (v). Subpart ZZZZ. [40 CFR 63.6645(f)]

FUG 0001 96-10 - Process Fugitives

Compliance with the Leak Detection and Repair (LDAR) under the Louisiana MACT Non-Hon and NESHAP, 40 CFR 63, Subpart U has been determined to be compliance with BACT in accordance with Prevention of Significant Deterioration (PSD) requirements under Permit No. PSD-LA-672 dated July 30, 2003. [40 CFR 52.21, LAC 33:III.509]

SPECIFIC REQUIREMENTS

AJ ID: 1244 - Firestone Polymers - Lake Charles Facility
Activity Number: PER20080001
Permit Number: 0520-00007-V2
Air - Title V Regular Permit Renewal

FUG 0001 96-10 - Process Fugitives

- 179 [40 CFR 63.182(c)] Submit Notification of Compliance Status: Due within 90 days of the compliance dates specified in the 40 CFR 63 subpart that references 40 CFR 63 Subpart H. Include the information specified in 40 CFR 63.182(c)(1) through (c)(3). Subpart H. [40 CFR 63.182(c)] Comply with the requirements of 40 CFR 63 Subpart H for the processes and designated organic HAP's listed in 40 CFR 63.190(b). Subpart I. [40 CFR 63.192(a)(1)]
- 180 [40 CFR 63.192(a)(1)] Maintain all applicable records in such a manner that they can be readily accessed. Retain the most recent 6 months of records on site or make accessible from a central location by computer or other means that provides access within 2 hours after a request. Subpart I. [40 CFR 63.192(f)(1)]
- 181 [40 CFR 63.192(f)(1)] Keep copies of all applicable reports and records required by 40 CFR 63 Subpart H for at least 2 years, except as otherwise specified in 40 CFR 63 Subpart H. Subpart I. [40 CFR 63.192(f)]
- 182 [40 CFR 63.192(f)] Comply with the requirements of 40 CFR 63 Subpart H, except as specified in 40 CFR 63.502(b) through (m). Subpart U. [40 CFR 63.502(a)]
- 183 [40 CFR 63.502(a)] Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep records of the information specified in 40 CFR 63.506(d)(1) through (d)(9), unless an alternative recordkeeping system has been requested and approved as specified in 40 CFR 63.506(g), and except as provided in 40 CFR 63.506(h). Subpart U. [40 CFR 63.506(d)]
- 184 [40 CFR 63.506(d)] Equip all rotary pumps and compressors handling volatile organic compounds having a true vapor pressure of 1.5 psia or greater at handling conditions with mechanical seals or other equivalent equipment.
- 185 [LAC 33:III.2(11)] Repair according to LAC 33:III.2(22.C.3) any regulated component observed leaking by sight, sound, or smell, regardless of the leak's concentration, except those covered under LAC 33:III.2(22.C.1.d).
- 186 [LAC 33:III.2(22.C.1.c)] Pumps and valves in heavy liquid service: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 within 5 days if observed leaking by sight, sound, or smell. Repair according to LAC 33:III.2(22.C.3) if the pump or valve is determined to be leaking in excess of the applicable limits given in LAC 33:III.2(22.
- 187 [LAC 33:III.2(22.C.1.d)] Which Months: All Year Statistical Basis: None specified
Do not locate any valve, except safety pressure relief valves, at the end of a pipe or line containing volatile organic compounds unless the end of such line is sealed with a second valve, a blind flange, a plug, or a cap. Remove such sealing devices only when the line is in use, for example, when a sample is being taken. When the line has been used and is subsequently resealed, close the upstream valve first, followed by the sealing device.
- 188 [LAC 33:III.2(22.C.2)] Make every reasonable effort to repair a leaking component, as described in LAC 33:III.2(22, within 15 days, except as provided.
- 189 [LAC 33:III.2(22.C.3)] Determine the percent of leaking components at a process unit for a test period using the equation in LAC 33:III.2(22.C.4.
- 190 [LAC 33:III.2(22.C.4)] Determine the total percent of leaking and unrepairable components using the equation in LAC 33:III.2(22.C.5.
- 191 [LAC 33:III.2(22.C.5)] Process drains: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 annually (one time per year). If a reading of 1.000 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in LAC 33:III.2(22.C.3.
- 192 [LAC 33:III.2(22.D.1.a)] Which Months: All Year Statistical Basis: None specified
Compressor seals: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 quarterly (four times a year). If a reading of 5,000 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in LAC 33:III.2(22.C.3.
- 193 [LAC 33:III.2(22.D.1.b.i)] Which Months: All Year Statistical Basis: None specified

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- 194 [LAC 33:III.2|22.D.1.b.ii] Pressure relief valves in gas service: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 quarterly (four times a year). If a reading of 1,000 ppmv or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in LAC 33:III.2|22.C.3.
 Which Months: All Year Statistical Basis: None specified
- 195 [LAC 33:III.2|22.D.1.b.iii] Valves in light liquid service: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 quarterly (four times a year). If a reading of 1,000 ppmv or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in LAC 33:III.2|22.C.3. Permittee may elect to comply with the alternate standards for valves in LAC 33:III.2|22.E (skip period provisions).
 Which Months: All Year Statistical Basis: None specified
- 196 [LAC 33:III.2|22.D.1.b.iv] Pumps in light liquid service: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 quarterly (four times a year). If a reading of 5,000 ppmv or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in LAC 33:III.2|22.C.3.
 Which Months: All Year Statistical Basis: None specified
- 197 [LAC 33:III.2|22.D.1.b.v] Valves in gas service: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 quarterly (four times a year). If a reading of 1,000 ppmv or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in LAC 33:III.2|22.C.3. Permittee may elect to comply with the alternate standards for valves in LAC 33:III.2|22.E (skip period provisions).
 Which Months: All Year Statistical Basis: None specified
- 198 [LAC 33:III.2|22.D.1.c] Pumps: Seal or closure mechanism monitored by visual inspection/determination weekly (52 times a year).
 Which Months: All Year Statistical Basis: None specified
- 199 [LAC 33:III.2|22.D.1.d.i] Flanged connectors: Presence of a leak monitored by visual, audible, and/or olfactory weekly.
 Which Months: All Year Statistical Basis: None specified
- 200 [LAC 33:III.2|22.D.1.d.ii] Flanged connectors: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 quarterly.
 Which Months: All Year Statistical Basis: None specified
- 201 [LAC 33:III.2|22.D.1.e] Instrumentation systems: Presence of a leak monitored by visual, audible, and/or olfactory weekly.
 Which Months: All Year Statistical Basis: None specified
- 202 [LAC 33:III.2|22.D.3.a] Pressure relief valves: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 within 24 hours after venting to the atmosphere. If a reading of 1,000 ppmv or greater (for petroleum refineries, SOCMI, MTBE, and polymer manufacturing industry) or 2,500 ppmv or greater (for natural gas processing plants) is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in LAC 33:III.2|22.C.3.
 Which Months: All Year Statistical Basis: None specified
- 203 [LAC 33:III.2|22.D.3.b] All components: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 upon each occurrence of a leak detected by sight, smell, or sound, unless electing to implement actions as specified in LAC 33:III.2|22.C.3.
 Which Months: All Year Statistical Basis: None specified
- 204 [LAC 33:III.2|22.D.3.c] Inaccessible valves: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 annually (at a minimum).
 Which Months: All Year Statistical Basis: None specified
- 205 [LAC 33:III.2|22.D.3.d] Unsafe-to-monitor valves: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 upon each occurrence of conditions allowing these valves to be monitored safely.
 Which Months: All Year Statistical Basis: None specified
- 206 [LAC 33:III.2|22.F.1] When a component which has a leak that cannot be repaired, as described in LAC 33:III.2|22.C, is located, affix to the leaking component a weatherproof and readily visible tag bearing an identification number and the date the leak is located. Remove the tag after the leak has been repaired.

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Equipment/operational data recordkeeping by survey log upon each occurrence of a leak. Include the leaking component information specified in LAC 33:III.2122.F.2.a through j. Retain the survey log for two years after the latter date specified in LAC 33:III.2122.F.2 and make said log available to DEQ upon request.

Submit report: Due semiannually, by the 31st of January and July, to the Office of Environmental Assessment. Include the information specified in LAC 33:III.2122.G.1 through 6 for each calendar quarter during the reporting period.

Comply with the test methods and procedures in Section P, as specified in Subsections P.1 through P.5 of the Louisiana MACT Determination for Non-HON Equipment Leaks (March 30, 1995).

Connectors in gas/vapor service and in light liquid service (opened or otherwise had the seal broken): VOC. Total monitored by the regulation's specified method(s) within 90 days after being returned to VOTAP service. Monitor each connector that has been opened or has otherwise had the seal broken, including those determined to be unrepairable prior to process unit shutdown, as specified in Paragraph O.8.a of the Louisiana MACT Determination for Non-HON Equipment Leaks (March 30, 1995). Monitor using the method specified in Section P. If the follow-up monitoring detects a leak, initiate repair provisions specified in Subsection O.9, unless it is determined to be unrepairable, in which case it is counted as unrepairable.

Which Months: All Year Statistical Basis: None specified Sampling connection systems (closed-purge or closed-vent system): Return the purged process fluid directly to the process line with zero VOTAP emissions to the atmosphere, or collect and recycle the purged process fluid with zero VOTAP emissions to the atmosphere, or be designed and operated to capture and transport all the purged process fluid to a control device that complies with the requirements of Section N, as specified in Subsection G.2 of the Louisiana MACT Determination for Non-HON Equipment Leaks (March 30, 1995).

Compressors: Ensure that the barrier fluid is not in VOTAP service and, if the compressor is covered by a standard under NSPS, is not in VOC service, as specified in Subsection E.4 of the Louisiana MACT Determination for Non-HON Equipment Leaks (March 30, 1995). Pumps in light liquid service (dual mechanical seal system): Ensure that the barrier fluid is not in VOTAP service and, if the pump is covered by standards under NSPS, is not in VOC service, as specified in Paragraph D.4.b of the Louisiana MACT Determination for Non-HON Equipment Leaks (March 30, 1995). Comply with this requirement instead of the requirements in Subsection D.1.

Pressure relief device in gas/vapor service: Equip with a closed-vent system capable of capturing and transporting leakage from the pressure relief device to a control device as described in Section N, as specified in Section F.2.b of the Louisiana MACT Determination for Non-HON Equipment Leaks (March 30, 1995). Alternative to Subsections F.1 and F.2.

Connectors in gas/vapor service and in light liquid service (inaccessible or glass or glass-lined): Repair leaks as soon as practicable, but no later than 15 calendar days after detecting a leak by visual, audible, olfactory or other means, except as specified in Subsection O.8, as specified in Subsection O.11.b of the Louisiana MACT Determination for Non-HON Equipment Leaks (March 30, 1995). Make a first attempt at repair no later than 5 calendar days after the leak is detected, as specified in Subsection O.11.c of the Louisiana MACT Determination for Non-HON Equipment Leaks (March 30, 1995). Comply with this requirement instead of the monitoring requirements of Subsection O.2 through O.6 and the recordkeeping and reporting requirements.

Connectors in gas/vapor service and in light liquid service (unsafe-to-monitor): VOC. Total monitored by the regulation's specified method(s) at the regulation's specified frequency. Maintain a written plan that requires monitoring as frequently as practicable during safe to monitor periods, as specified in Subsection O.10.b of the Louisiana MACT Determination for Non-HON Equipment Leaks (March 30, 1995). Monitor using the method in Section P. Comply with this requirement instead of the requirements in Subsection O.2 through O.6.

Which Months: All Year Statistical Basis: None specified

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- 217 [LAC 33:III.5109.A] Connectors in gas/vapor service and in light liquid service (welded completely around the circumference of the interface or physically removed and the pipe welded together): Equipment/operational data monitored by the regulation's specified method(s) within three months after being welded. Check the integrity of the weld by monitoring according to the procedures in Section P or by testing using x-ray, acoustic monitoring, hydrotesting, or other applicable method, as specified in Subsection O.7 of the Louisiana MACT Determination for Non-HON Equipment Leaks (March 30, 1995). Comply with this requirement instead of the requirements in Subsection O.
- Which Months: All Year Statistical Basis: None specified
- Open-ended valves or lines: Equip with a cap, blind flange, plug, or a second valve that seals the open end at all times except during operations requiring process fluid flow through the open-ended valve or line or during maintenance and repair, as specified in Subsection H.1 of the Louisiana MACT Determination for Non-HON Equipment Leaks (March 30, 1995).
- Attach a weatherproof and readily visible identification, marked with the equipment identification, to leaking equipment, as specified in Subsection Q.2 of the Louisiana MACT Determination for Non-HON Equipment Leaks (March 30, 1995).
- Pumps in light liquid service: Equip with a closed-vent system capable of capturing and transporting any leakage from the seal or seals to a control device that complies with the requirements of Section N, as specified in Paragraph D.5 of the Louisiana MACT Determination for Non-HON Equipment Leaks (March 30, 1995). Alternative to Subsections D.1 through D.4.
- Submit report: Due semiannually starting six months after the initial report required in Subsection R.1. Include the information specified in Paragraphs R.2.a through R.2.e, as specified in Subsection R.2 of the Louisiana MACT Determination for Non-HON Equipment Leaks (March 30, 1995).
- Surge control vessels and bottoms receivers: Equip each surge control vessel and bottoms receiver that is not routed back to the process with a closed-vent system that routes the organic vapors vented from the vessel back to the process or to a control device that complies with the requirements of Section N or to an alternate method of control which has been approved by DEQ, as specified in Section L of the Louisiana MACT Determination for Non-HON Equipment Leaks (March 30, 1995).
- Open-ended valves or lines (equipped with a second valve): Operate in a manner such that the valve on the process fluid end is closed before the second valve is closed, as specified in Subsection H.2 of the Louisiana MACT Determination for Non-HON Equipment Leaks (March 30, 1995).
- Connectors in gas/vapor service and in light liquid service: Repair Leaks as soon as practicable, but not later than 15 calendar days after a leak is detected, except as provided in Subsection O.8. Make a first attempt at repair no later than 5 calendar days after each leak is detected. If a leak is detected, monitor the for leaks within the first 90 days after its repair, as specified in Subsection O.9 of the Louisiana MACT Determination for Non-HON Equipment Leaks (March 30, 1995).
- Connectors in gas/vapor service and in light liquid service (percent of leaking connectors > 2): VOC. Total monitored by the regulation's specified method(s) quarterly until good performance is obtained or until four quarterly monitorings have been performed, as specified in Subsections O.2 and O.5 of the Louisiana MACT Determination for Non-HON Equipment Leaks (March 30, 1995). If good performance has not been obtained after four quarters of monitoring, monitor the remaining unchecked connectors within six months of the last quarterly monitoring period, as specified in Subsection O.6 of the Louisiana MACT Determination for Non-HON Equipment Leaks (March 30, 1995). If monitoring of the remaining connectors indicates good performance, monitor in accordance with Subsection O.4. If monitoring of the remaining connectors indicates that good performance has not been obtained, monitor in accordance with Subsection O.5. Monitor using the method specified in Section P. If an instrument reading ≥ 1000 ppm is measured, a leak is detected. If a leak is detected, initiate repair provisions specified in Subsection O.9, except as provided in Section M.
- Which Months: All Year Statistical Basis: None specified

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226 [LAC 33:III.5|09 A]

Pumps in light liquid service (dual mechanical seal system): Equipment/operational data monitored by visual inspection/determination daily. Check sensor daily or equip with an audible alarm, as specified in Subparagraph D.4.e.i of the Louisiana MACT Determination for Non-HON Equipment Leaks (March 30, 1995). If the sensor indicates failure of the seal system, the barrier fluid system, or both based on the criterion determined in Paragraph D.4.e.ii, a leak is detected. If a leak is detected, initiate repair provisions specified in Paragraphs D.3.a and D.3.b. Comply with this requirement instead of the requirements in Subsection D.1.

Which Months: All Year Statistical Basis: None specified

Pumps in light liquid service (dual mechanical seal system): Presence of a leak monitored by visual inspection/determination weekly (calendar), as specified in Paragraph D.4.d of the Louisiana MACT Determination for Non-HON Equipment Leaks (March 30, 1995). If there are indications of liquids dripping from the pump seal, a leak is detected. If a leak is detected, initiate repair provisions specified in Paragraphs D.3.a and D.3.b. Comply with this requirement instead of the requirements in Subsection D.1.

Which Months: All Year Statistical Basis: None specified

Valves in gas/vapor service and in light liquid service (percent leaking valves ≤ 2 for two consecutive semiannual leak detection periods): VOC, Total monitored by the regulation's specified method(s) annually, as specified in Paragraph J.2.b of the Louisiana MACT Determination for Non-HON Equipment Leak (March 30, 1995). Monitor using the method specified in Section P. If the percentage of valves leaking is greater than 2 for any monitoring period, comply with the requirements as described in Section I, as specified in Paragraph J.2.c of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Optional alternative to quarterly monitoring.

Which Months: All Year Statistical Basis: None specified

Connectors in gas/vapor service and in light liquid service (unsafe-to-monitor): Determine that the connector is unsafe to monitor because personnel would be exposed to an immediate danger as a result of complying with Subsections O.2 through O.6, as specified in Subsection O.10.a of the Louisiana MACT Determination for Non-HON Equipment Leaks (March 30, 1995). Comply with this requirement instead of the requirements in Subsection O.2 through O.6.

Pressure relief device in gas/vapor service: VOC, Total monitored by the regulation's specified method(s) within 5 days (calendar) after the pressure release to confirm the condition of no leakage, as indicated by an instrument reading of less than 500 ppm above background, as specified in Section F.2.b of the Louisiana MACT Determination for Non-HON Equipment Leaks (March 30, 1995). Monitor using the method specified in Subsection P.3.

Which Months: All Year Statistical Basis: None specified

Connectors in gas/vapor service and in light liquid service (≤ 1 inch in diameter): Comply with the requirements of Section K, as specified in Paragraph O.8.b of the Louisiana MACT Determination for Non-HON Equipment Leaks (March 30, 1995). Comply with this requirement instead of the requirements in Paragraph O.2.

Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in Subsections Q.1 through Q.13 as applicable, as specified in Section Q of the Louisiana MACT Determination for Non-HON Equipment Leaks (March 30, 1995). Identify each piece of equipment in a process unit subject to this MACT determination such that it can be distinguished readily from equipment that is not subject to this MACT determination, as specified in Subsection C.3 of the Louisiana MACT Determination for Non-HON Equipment Leaks (March 30, 1995).

227 [LAC 33:III.5|09 A]

228 [LAC 33:III.5|09 A]

229 [LAC 33:III.5|09 A]

230 [LAC 33:III.5|09 A]

231 [LAC 33:III.5|09 A]

232 [LAC 33:III.5|09 A]

233 [LAC 33:III.5|09 A]

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- 234 [LAC 33:III.5109.A] Pumps in light liquid service (dual mechanical seal system): Equip each barrier fluid system with a sensor that will detect failure of the seal system, the barrier fluid system, or both, as specified in Paragraph D.4.c of the Louisiana MACT Determination for Non-HON Equipment Leaks (March 30, 1995). Comply with this requirement instead of the requirements in Subsection D.1.
- 235 [LAC 33:III.5109.A] Pumps in light liquid service: Presence of a leak monitored by visual inspection/determination weekly (calendar), as specified in Paragraph D.1.b of the Louisiana MACT Determination for Non-HON Equipment Leaks (March 30, 1995). If there are indications of liquids dripping from the pump seal, monitor within 5 days by the methods specified in Subsection P.2.
- 236 [LAC 33:III.5109.A] Which Months: All Year Statistical Basis: None specified Valves in gas/vapor service and in light liquid service (percent leaking valves ≤ 2 for two consecutive quarterly leak detection periods): VOC, Total monitored by the regulation's specified method(s) semiannually, as specified in Paragraph J.2.a of the Louisiana MACT Determination for Non-HON Equipment Leak (March 30, 1995). Monitor using the method specified in Section P. If the percentage of valves leaking is greater than 2 for any monitoring period, comply with the requirements as described in Section I, as specified in Paragraph J.2.c of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Optional alternative to quarterly monitoring.
- 237 [LAC 33:III.5109.A] Which Months: All Year Statistical Basis: None specified Compressors (no detectable emissions): VOC, Total monitored by the regulation's specified method(s) once initially upon designation, annually, and at other times requested by DEQ, as specified in Paragraph E.10.b of the Louisiana MACT Determination for Non-HON Equipment Leaks (March 30, 1995). Comply with this requirement instead of the requirements in Subsections E.2 through E.9.
- 238 [LAC 33:III.5109.A] Which Months: All Year Statistical Basis: None specified Valves in gas/vapor service and in light liquid service: Repair leaks as soon as practicable, but no later than 15 calendar days after a leak is detected, except as provided in Section M, as specified in Subsection I.3 and I.4 of the Louisiana MACT Determination for Non-HON Equipment Leaks (March 30, 1995). Make a first attempt at repair no later than 5 calendar days after each leak is detected.
- 239 [LAC 33:III.5109.A] Connectors in gas/vapor service and in light liquid service: VOC, Total monitored by the regulation's specified method(s) once initially, as specified in Subsections O.1 and O.2 of the Louisiana MACT Determination for Non-HON Equipment Leaks (March 30, 1995). Monitor using the method specified in Section P. If an instrument reading ≥ 1000 ppm is measured, a leak is detected. If a leak is detected, initiate repair provisions specified in Subsection O.9, except as provided in Section M.
- 240 [LAC 33:III.5109.A] Which Months: All Year Statistical Basis: None specified Compressors: Equip with a seal system that includes a barrier fluid system and that prevents leakage of process fluid to the atmosphere, except as provided for in Subsections C.4, E.9 and E.10, as specified in Subsection E.2 of the Louisiana MACT Determination for Non-HON Equipment Leaks (March 30, 1995).
- 241 [LAC 33:III.5109.A] VOC, Total recordkeeping by logbook within 90 days of placing equipment back in service that had been physically removed from service, disassembled or dismantled. Maintain records as required in Subsection Q.5, as specified in Subsection C.5 of the Louisiana MACT Determination for Non-HON Equipment Leaks (March 30, 1995).
- 242 [LAC 33:III.5109.A] Values in gas/vapor service and in light liquid service (unsafe-to-monitor). Demonstrate that the valve is unsafe to monitor because monitoring personnel would be exposed to an immediate danger as a consequence of complying with Subsection I.1, as specified in Subsection I.5.a of the Louisiana MACT Determination for Non-HON Equipment Leaks (March 30, 1995). Comply with this requirement instead of the requirements in Subsection I.1.

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- 243 [LAC 33:III.5109.A] Valves in gas/vapor service and in light liquid service (skip period leak detection and repair): Notify DEQ 30 days before implementing any of the alternate provisions of Section J, as specified in Subsection R.4 of the Louisiana MACT Determination for Non-HON Equipment Leaks (March 30, 1995).
- 244 [LAC 33:III.5109.A] Pumps in light liquid service (dual mechanical seal system): Operate with the barrier fluid at a pressure that is at all times greater than the pump stuffing box pressure, or equip with a barrier fluid degassing reservoir that is connected by a closed-vent system to a control device that complies with the requirements of Section N, or equip with a system that purges the barrier fluid into a process stream with zero VOTAP emissions to the atmosphere, as specified in Paragraph D.4.a of the Louisiana MACT Determination for Non-HON Equipment Leaks (March 30, 1995). Comply with this requirement instead of the requirements in Subsection D.1.
- Compressors: Repair leaks as soon as practicable, but not later than 15 calendar days after a leak is detected, except as provided in Section M, as specified in Subsection E.8 of the Louisiana MACT Determination for Non-HON Equipment Leaks (March 30, 1995). Make a first attempt at repair no later than 5 calendar days after each leak is detected.
- Instrument systems and pressure relief devices in liquid service; and pumps, valves, connectors, and agitators in heavy liquid service: VOC. Total monitored by the regulation's specified method(s) within 5 days of finding evidence of a potential leak by visual, audible, of factory, or any other detection method, as specified in Section K.1 of the Louisiana MACT Determination for Non-HON Equipment Leaks (March 30, 1995). Monitor using the method specified in Subsection P.2. If an instrument reading of 10000 ppm or greater for agitators, 2000 ppm or greater for pumps or 1000 ppm or greater for valves, connectors, instrument systems, or pressure relief devices is measured, a leak is detected. If a leak is detected, initiate repair provisions specified in Subsection K.3.
- Which Months: All Year Statistical Basis: None specified
- Pumps in light liquid service: Repair leaks as soon as practicable, but not later than 15 calendar days after a leak is detected, except as provided in Section M, as specified in Subsection D.3 of the Louisiana MACT Determination for Non-HON Equipment Leaks (March 30, 1995). Make a first attempt at repair no later than 5 calendar days after each leak is detected.
- Pumps in light liquid service (unmanned plant site): Presence of a leak monitored by visual inspection/determination at the regulation's specified frequency, as specified in Subparagraph D.6 of the Louisiana MACT Determination for Non-HON Equipment Leaks (March 30, 1995). Monitor pump as often as practicable and at least monthly. Comply with this requirement instead of the weekly visual inspection requirements in Paragraphs D.1.b and D.4.d, and the daily requirements in Paragraph D.4.e.i.
- Which Months: All Year Statistical Basis: None specified
- Valves in gas/vapor service and in light liquid service (difficult-to-monitor): VOC, Total monitored by the regulation's specified method(s) at the regulation's specified frequency. Maintain a written plan that requires monitoring of the valve at least once per calendar year, as specified in Subsection I.6.c of the Louisiana MACT Determination for Non-HON Equipment Leaks (March 30, 1995). Monitor using the method specified in Subsection P.2. Comply with this requirement instead of the requirements in Subsection I.1.
- Which Months: All Year Statistical Basis: None specified
- Pumps in light liquid service: VOC, Total monitored by the regulation's specified method(s) quarterly. Monitor to detect leaks using the methods specified in Subsection P.2, except as provided in Subsection C.4 and Subsections D.4, D.5, and D.6, as specified in Paragraph D.1.a of the Louisiana MACT Determination for Non-HON Equipment Leaks (March 30, 1995). If an instrument reading of 2000 ppm or greater is measured, a leak is detected. If a leak is detected, initiate repair provisions as specified in Subsection D.3.
- Which Months: All Year Statistical Basis: None specified

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251 [LAC 33:III.5109.A] Compressors (no detectable emissions): Demonstrate that the compressor is operating with no detectable emissions, as indicated by an instrument reading of less than 500 ppm above background, as measured by the method specified in Subsection P.3, as specified in Paragraph E.10.a of the Louisiana MACT Determination for Non-HON Equipment Leaks (March 30, 1995). Comply with this requirement instead of the requirements in Subsections E.2 through E.9.

252 [LAC 33:III.5109.A] Connectors in gas/vapor service and in light liquid service (percent of leaking connectors ≤ 2): VOC, Total monitored by the regulation's specified method(s) annually, as specified in Subsections O.2 and O.4 of the Louisiana MACT Determination for Non-HON Equipment Leaks (March 30, 1995). Monitoring must be performed within one year from the previous monitoring. Monitor using the method specified in Section P. If an instrument reading ≥ 1000 ppm is measured, a leak is detected. If a leak is detected, initiate repair provisions specified in Subsection O.9, except as provided in Section M.

Which Months: All Year Statistical Basis: None specified
 Compressors (seal system): Operate with the barrier fluid at a pressure that is greater than the compressor stuffing box pressure, or equip with a barrier fluid system that is connected by a closed-vent system to a control device that complies with the requirements of Section N, or equip with a system that purges the barrier fluid into a process stream with zero VOTAP emission to the atmosphere, as specified in Subsection E.3 of the Louisiana MACT Determination for Non-HON Equipment Leaks (March 30, 1995).

Valves in gas/vapor service and in light liquid service (difficult-to-monitor): Demonstrate that the valve cannot be monitored without elevating the monitoring personnel more than two meters above a support service, as specified in Subsection I.6.a of the Louisiana MACT Determination for Non-HON Equipment Leaks (March 30, 1995). Comply with this requirement instead of the requirements in Subsection I.1.
 Connectors in gas/vapor service and in light liquid service: Calculate the percent leaking connectors using the equation in Subsection O.12 for use in determining the monitoring frequency, as specified in Subsection O.12 of the Louisiana MACT Determination for Non-HON Equipment Leaks (March 30, 1995).

Pressure relief device in gas/vapor service: VOC, Total < 500 ppm except during pressure releases, as measured by the method specified in Section F.1 of the Louisiana MACT Determination for Non-HON Equipment Leaks (March 30, 1995).
 Which Months: All Year Statistical Basis: None specified

Compressors: Determine, based on design considerations and operating experience, a criterion that indicates failure of the seal system, the barrier fluid system, or both, as specified in Paragraph E.6.b of the Louisiana MACT Determination for Non-HON Equipment Leaks (March 30, 1995).

Connectors in gas/vapor service and in light liquid service (≤ 1 inch in diameter): VOC, Total monitored by the regulation's specified method(s) within 90 days after being returned to VOTAP service. Monitor each connector that has been opened or has otherwise had the seal broken, as specified in Paragraph O.8.b of the Louisiana MACT Determination for Non-HON Equipment Leaks (March 30, 1995). Monitor using the method specified in Section P. If the follow-up monitoring detects a leak, initiate repair provisions specified in Subsection O.9. Comply with this requirement instead of the requirements in Paragraph O.2.

Which Months: All Year Statistical Basis: None specified
 Instrument systems and pressure relief devices in liquid service: Repair leaks as soon as practicable, but not later than 15 calendar days after a leak is detected, except as provided in Section M, as specified in Subsection K.3 of the Louisiana MACT Determination for Non-HON Equipment Leaks (March 30, 1995). Make a first attempt at repair no later than 5 calendar days after each leak is detected.

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Open-ended valves or lines: Monitor and repair in accordance with Section I, as specified in Subsection H.4 of the Louisiana MACT Determination for Non-HON Equipment Leaks (March 30, 1995).

Compressors: Equip each barrier fluid system as described in Subsections E.2 through E.4 with a sensor that will detect failure of the seal system, the barrier fluid system, or both, as specified in Subsection E.5 of the Louisiana MACT Determination for Non-HON Equipment Leaks (March 30, 1995).

Pressure relief device in gas/vapor service: After each pressure release, return to a condition of no leakage, as indicated by an instrument reading of less than 500 ppm, as soon as practicable, but no later than five calendar days after each pressure release, except as provided in Section M, as specified in Section F.2.a of the Louisiana MACT Determination for Non-HON Equipment Leaks (March 30, 1995).

Delay of Repair: Repair equipment before the end of the next process unit shutdown, if repair is technically infeasible without a process unit shutdown, as specified in Subsection M.1 of the Louisiana MACT Determination for Non-HON Equipment Leaks (March 30, 1995). Valves in gas/vapor service and in light liquid service (percent leaking valves ≥ 4): VOC, Total monitored by the regulation's specified method(s) monthly, as specified in Subsection I.7 of the Louisiana MACT Determination for Non-HON Equipment Leak (March 30, 1995). Monitor using the method specified in Subsection P.2. Initiate monthly monitoring within 60 days of the previous monitoring and continue until the percent of leaking valves is less than 4, at which time monitoring can be performed in accordance with Subsection I.1.

Which Months: All Year Statistical Basis: None specified Values in gas/vapor service and in light liquid service: VOC, Total monitored by the regulation's specified method(s) quarterly, as specified in Subsection I.1 of the Louisiana MACT Determination for Non-HON Equipment Leak (March 30, 1995). Monitor using the method specified in Subsection P.2. If an instrument reading of 1000 ppm or greater is measured, a leak is detected. If a leak is detected, initiate repair provisions specified in Subsection I.3.

Which Months: All Year Statistical Basis: None specified Compressors (seal system): VOC, Total monitored by the regulation's specified method(s) quarterly, as specified in Subsection E.1 of the Louisiana MACT Determination for Non-HON Equipment Leaks (March 30, 1995). Monitor to detect leaks using the methods specified in Section P. If an instrument reading of 5000 ppm is measured, a leak is detected. If a leak is detected, initiate repair provisions specified in Subsection E.8.

Which Months: All Year Statistical Basis: None specified Pumps in light liquid service (dual mechanical seal system): Determine, based on design considerations and operating experience, a criterion that indicates failure of the seal system, the barrier fluid system, or both, as specified in Subparagraph D.4.e.ii of the Louisiana MACT Determination for Non-HON Equipment Leaks (March 30, 1995). Comply with this requirement instead of the requirements in Subsection D.1. Compressors: Equipment/operational data monitored by technically sound method daily, as specified in Paragraph E.6.a of the Louisiana MACT Determination for Non-HON Equipment Leaks (March 30, 1995). Check each sensor as required in Subsection E.5 daily or equip with an audible alarm unless the compressor is located within the boundary of an unmanned plant site. If the sensor indicates failure of the seal system, the barrier fluid system, or both based on criterion determined under Paragraph E.6.b, a leak is detected. If a leak is detected, initiate repair provisions specified in Subsection E.8.

Which Months: All Year Statistical Basis: None specified

260 [LAC 33:III.5109.A]

261 [LAC 33:III.5109.A]

262 [LAC 33:III.5109.A]

263 [LAC 33:III.5109.A]

264 [LAC 33:III.5109.A]

265 [LAC 33:III.5109.A]

266 [LAC 33:III.5109.A]

267 [LAC 33:III.5109.A]

268 [LAC 33:III.5109.A]

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269 [LAC 33:III.5109.A] VOC, Total monitored by technically sound method within 90 days of placing equipment back in service that had been physically removed from service, disassembled or dismantled to determine if it is leaking, as specified in Subsection C.5 of the Louisiana MACT Determination for Non-HON Equipment Leaks (March 30, 1995).

Which Months: All Year Statistical Basis: None specified

Valves in gas/vapor service and in liquid service (unsafe-to-monitor): VOC, Total monitored by the regulation's specified method(s) at the regulation's specified frequency. Maintain a written plan that requires monitoring of the valve as frequently as practicable during safe-to-monitor times, as specified in Subsection 1.5.b of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Monitor using the method specified in Subsection P.2. Comply with this requirement instead of the requirements in Subsection I.1.

Which Months: All Year Statistical Basis: None specified

Sampling connection systems: Equip with a closed-purge system or closed-vent system, except as provided for in Section C, as specified in Subsection G.1 of the Louisiana MACT Determination for Non-HON Equipment Leaks (March 30, 1995). Ensure that this system collects or captures the sample purge for return to the process.

Compressors: Equip with a closed-vent system capable of capturing and transporting any leakage from the seal to a control device that complies with the requirements of Section N, except as provided for in Subsection E.10, as specified in Paragraph E.9 of the Louisiana MACT Determination for Non-HON Equipment Leaks (March 30, 1995). Alternative to Subsections E.1 through E.7.

GRP 0004 96-01 - Drying Lines Emission Cap

Group Members: EQT 0001EQT 0002EQT 0003EQT 0004EQT 0005

273 [40 CFR 63.494(a)(2)(i)]

Organic HAP <= 10 kg/Mg crumb rubber (dry weight). Subpart U. [40 CFR 63.494(a)(2)(i)]

Which Months: All Year Statistical Basis: Monthly average
 Permittee shall record monthly operating rate and natural gas usage of the individual drying lines, Emission Points 96-01a thru 96-01e, as well as monthly total operating rate of the drying lines for the last twelve months. Based on the operating rate of the individual drying lines the PM10, SO₂, NO_x, CO and VOC emissions in tons per year shall be calculated and recorded, as well as the total operating rate and the total calculated emissions for all the drying lines shall be recorded for each month and for the last twelve months. Total calculated emissions from the drying lines based on the operating rates and the natural gas usage shall not exceed PM10, 0.53; SO₂, 0.04; NO_x, 6.95; CO, 5.84; and VOC, 1380.52. Emissions from these drying lines shall be reported under an emission cap, Emission Point 96-01. These records shall be kept on site and available for inspection by the Office of Environmental Compliance, Surveillance Division. Total calculated emissions based on the operating rate and the natural gas usage of the drying lines above the maximum listed in this specific condition for any twelve consecutive month period shall be a violation of this permit and must be reported to the Office of Environmental Compliance, Enforcement Division. A report showing the operating rate of the individual drying lines and the overall total operating rate and the emissions of the drying lines shall be submitted to the Office of Environmental Compliance, Surveillance Division by March 31 for the preceding calendar year.

GRP 0005 96-02 - Boilers Emission Cap

Group Members: EQT 0006EQT 0007EQT 0008EQT 0009EQT 0010

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GRP 0005 96-02 - Boilers Emission Cap

275 [LAC 33:III.507.H.1.a]

Permittee shall adequately monitor the heat input (MM BTU/h) of the individual boilers, Emission Points 96-02a thru 96-02e, as referenced in this specific condition. Based on the heat input of the individual boilers the PM10, SO2, NOx, CO and VOC emissions in tons per year shall be calculated and recorded, as well as the total heat input and the total calculated emissions for all the boilers shall be recorded for each month and for the last twelve months. Total heat input of the boilers shall not exceed 326 MM BTU/hr and the total calculated emissions from the boilers based on the heat input shall not exceed PM10, 9.10; SO2, 0.72; NOx, 117.56; CO, 21.06; and VOC, 6.58. Emissions from these boilers shall be reported under an emission cap, Emission Point 96-02. These records shall be kept on site and available for inspection by the Department of Environmental Quality Personnel. Total heat input and the calculated emissions from the boilers above the maximum listed in this specific condition for any twelve consecutive month period shall be a violation of this permit and must be reported to the Office of Environmental Compliance, Enforcement Division. A report showing the heat input of the individual boilers and the overall total heat input and the emissions of the boilers shall be submitted to the Office of Environmental Compliance, Enforcement Division by March 31 for the preceding calendar year.

GRP 0006 96-03 - Flare Header System Emission Cap

Group Members: EQT 0011EQT 0012

276 [LAC 33:III.501.C.6]

Auxiliary Relief Flare, Emission Point 96-03b, shall be used as a standby control device for the Primary Flare, Emission Point 96-03a, and will only be used when the Primary Flare is out of service. The total emissions from the Primary and the Auxiliary Relief Flares shall not exceed NOx, 1.87; CO, 10.18; VOC, 9.16; 1,3-Butadiene, 0.65; n-Hexane, 2.85; and Styrene, 0.02 in tons per year. Emissions from these flares shall be reported under an emission cap, Emission Point 96-03. These records shall be kept on site and available for inspection by the Department of Environmental Quality Personnel. Total emission from the Primary and Auxiliary Relief Flares above the maximum listed in this specific condition for any preceding calendar year shall be a violation of this permit and must be reported to the Office of Environmental Compliance, Enforcement Division.

GRP 0007 96-05 - Cooling Towers Emission Cap

Group Members: EQT 0014EQT 0015EQT 0016

277 [LAC 33:III.501.C.6]

Permittee shall adequately monitor the normal operating rate (gpm) of the individual cooling towers, Emission Points 96-05a,96-05b, and 96-05c, as referenced in this specific condition. Based on the operating rate of the individual cooling towers the PM10 and Chlorine emissions in tons per year shall be calculated and recorded, as well as the total operating rate and the total calculated emissions for all the cooling towers shall be recorded for each month and for the last twelve months. Total operating rate of the cooling towers shall not exceed 45,000 gpm and the total calculated emissions from the cooling towers based on the operating rate shall not exceed PM10, 29.61 and Chlorine, 4.00. Emissions from the cooling towers shall be reported under an emission cap, Emission Point 96-05. These records shall be kept on site and available for inspection by the Department of Environmental Quality Personnel. Total operating rate and the calculated emissions from the cooling towers above the maximum listed in this specific condition for any twelve consecutive month period shall be a violation of this permit and must be reported to the Office of Environmental Compliance, Enforcement Division. A report showing the operating rate of the individual cooling towers and the overall total operating rate and the emissions of the cooling towers shall be submitted to the Office of Environmental Compliance, Enforcement Division by March 31 for the preceding calendar year.

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GRP 0008 96-06 - Low Pressure Storage Tanks Emission Cap

Group Members: EQT 0018EQT 0019EQT 0020EQT 0021EQT 0022EQT 0023EQT 0024EQT 0028EQT 0029EQT 0033EQT 0034EQT 0035EQT 0036EQT 0037EQT 0038EQT 0039EQT 0040EQT 0050

278 [LAC 33:III.501.C.6]

Total VOC emissions (cap) from the tanks, Emission Points 96-06b thru 96-06z, shall be limited to no more than 3.24 tons per year for Emission Point 96-06 based on the tanks total throughput. The total emissions from the tanks based on the throughput shall be calculated and recorded each month, as well as the total emissions calculated for the last twelve months. These records shall kept on site and available for inspection by the Department of Environmental Quality Personnel. Total calculated emissions based on the throughput from the tanks above the maximum listed in this specific condition for any twelve consecutive month period shall be a violation of this permit and must be reported to the Office of Environmental Compliance, Enforcement Division. A report showing the calculated emissions based on the throughput from the tanks for the preceding calendar year shall be submitted to the Office of Environmental Compliance, Enforcement Division, by March 31.

GRP 0009 96-07 - Solvent Storage Tanks Cap

Group Members: EQT 0042EQT 0043

279 [LAC 33:III.501.C.6]

Total VOC emissions (cap) from the tanks, Emission Points 96-07a and 96-07b, shall be limited to no more than 1.62 tons per year for Emission Point 96-07 based on the tanks total throughput. The total emissions from the tanks based on the throughput shall be calculated and recorded each month, as well as the total emissions calculated for the last twelve months. These records shall kept on site and available for inspection by the Department of Environmental Quality Personnel. Total calculated emissions based on the throughput from the tanks above the maximum listed in this specific condition for any twelve consecutive month period shall be a violation of this permit and must be reported to the Office of Environmental Compliance, Enforcement Division. A report showing the calculated emissions based on the throughput from the tanks for the preceding calendar year shall be submitted to the Office of Environmental Compliance, Enforcement Division, by March 31.

GRP 0010 96-12 - Monomer Storage Tanks Emission Cap

Group Members: EQT 0047EQT 0048

280 [LAC 33:III.501.C.6]

Total VOC emissions (cap) from the tanks, Emission Points 96-12a and 96-12b, shall be limited to no more than 2.58 tons per year for Emission Point 96-12 based on the tanks total throughput. The total emissions from the tanks based on the throughput shall be calculated and recorded each month, as well as the total emissions calculated for the last twelve months. These records shall kept on site and available for inspection by the Department of Environmental Quality Personnel. Total calculated emissions based on the throughput from the tanks above the maximum listed in this specific condition for any twelve consecutive month period shall be a violation of this permit and must be reported to the Office of Environmental Compliance, Enforcement Division. A report showing the calculated emissions based on the throughput from the tanks for the preceding calendar year shall be submitted to the Office of Environmental Compliance, Enforcement Division, by March 31.

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- 281 [40 CFR 52.21] Comply with the requirements of PSD-LA-672. This permit includes provisions of the Prevention of Significant Deterioration (PSD) review from Permit PSD-LA-672. [40 CFR 52.21, LAC 33:III:509]
 All affected facilities shall comply with all applicable provisions in 40 CFR 60 Subpart A.
 All affected facilities shall comply with all applicable provisions in 40 CFR 61 Subpart A.
 Permittee shall comply with all the applicable requirements of NESHAP, Subpart I - National Emission Standards for Organic Hazardous Air Pollutants for Certain Processes Subject to the Negotiated Regulation for Equipment Leaks. [40 CFR 63.190, 191, 40 CFR 63.192]
 Comply with the requirements of 40 CFR 63.113 through 63. 118, except as provided in 40 CFR 63.485(b) through (v). Subpart U. [40 CFR 63.485(a)]
 Compliance with all the applicable requirements of NESHAP, 40 CFR 63.485 has been determined to be compliance with 40 CFR 63.486 thru 492 in accordance with 40 CFR 63.483(b). The facility combines the batch front-end process vent streams with continuous front-end process streams. Subpart U.
 Organic HAP <= 10 kg/Mg crumb rubber (dry weight). Subpart U. [40 CFR 63.494(a)(2)(i)]
 Which Months: All Year Statistical Basis: Monthly average
 Demonstrate compliance with the residual organic HAP limitations in 40 CFR 63.494(a) by using the periodic sampling procedures in 40 CFR 63.495(b). Determine the monthly weighted average residual organic HAP content for each month in which any portion of the back-end of an elastomer production process is in operation. Determine a single monthly weighted average for all back-end process operations at the affected source. Subpart U. [40 CFR 63.495(a)]
 Presence of a flame monitored by the regulation's specified method(s) continuously. Monitor using a thermocouple, ultra-violet beam sensor, infrared sensor, or other device. Subpart U. [40 CFR 63.497(a)(2)]
 Which Months: All Year Statistical Basis: None specified
 Vent system: Secure the bypass line valve in the non-diverting position with a car-seal or a lock-and-key type configuration. Subpart U. [40 CFR 63.497(d)(2)]
 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in 40 CFR 63.498(a) through (d), as applicable. Subpart U.
 Submit report: Due within 180 days after a process change, as defined in 40 CFR 63.496(d), is made that causes the redetermination of the compliance status for the back-end process operations, as specified in 40 CFR 63.505(e)(7)(iii). Include in the report a description of the process change; the results of the redetermination of the compliance status, determined in accordance with 40 CFR 63.496(b), and recorded in accordance with 40 CFR 63.498(d)(1), and documentation of the re-establishment of a parameter level for the control or recovery device, defined as either a maximum or minimum operating parameter, that indicates proper operation of the control or recovery device, in accordance with 40 CFR 63.497(c) and recorded in accordance with 40 CFR 63.498(d)(2). Subpart U. [40 CFR 63.499(d)]
 Submit a description of planned reporting and recordkeeping procedures as required under 40 CFR 63.506(e)(3) or (e)(8), if using a control or recovery device other than those listed in 40 CFR 63.497(a) or requesting approval to monitor a parameter other than those specified in 40 CFR 63.497(a). Subpart U. [40 CFR 63.499(e)]
 Comply with the requirements of 40 CFR 63.132 through 63. 148, except as specified in 40 CFR 63.501(a)(1) through (a)(23) and (c). Subpart U. [40 CFR 63.501(a)]

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- 295 [40 CFR 63.501(b)] Comply with the requirements for maintenance wastewater in 40 CFR 63.105, except as specified in 40 CFR 63.501(c). Subpart U. [40 CFR 63.501(b)]
- 296 [40 CFR 63.502(n)] Comply with the requirements of 40 CFR 63.104, except as specified in 40 CFR 63.502(n)(1) through (n)(6). Subpart U. [40 CFR 63.502(n)]
- 297 [40 CFR 63.506(a)] Keep copies of all applicable records and reports required by 40 CFR 63 Subpart U for at least 5 years, as specified in 40 CFR 63.506(a)(1), with the exception listed in 40 CFR 63.506(a)(2). Subpart U. [40 CFR 63.506(a)]
- 298 [40 CFR 63.506(b)] Comply with the applicable recordkeeping and reporting requirements in 40 CFR 63 Subpart A, as specified in 40 CFR 63 Subpart U Table I.
- 299 [40 CFR 63.506(d)] Subpart U. [40 CFR 63.506(h)] Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep records of the information specified in 40 CFR 63.506(d)(1) through (d)(9), unless an alternative recordkeeping system has been requested and approved as specified in 40 CFR 63.506(g), and except as provided in 40 CFR 63.506(h). Subpart U. [40 CFR 63.506(d)]
- 300 [40 CFR 63.506(e)(5)] Submit Notification of Compliance Status: Due no later than 150 days after the compliance dates specified in 40 CFR 63 Subpart U. Submit the information specified in 40 CFR 63.506(e)(5)(i) through (e)(5)(xii), as applicable. Subpart U. [40 CFR 63.506(e)(5)]
- 301 [40 CFR 63.506(e)(6)] Submit Periodic Report: Due semiannually no later than 60 days after the end of each 6-month period. Submit the first report no later than 240 days after the date the Notification of Compliance Status is due, covering the 6-month period beginning on the date the Notification of Compliance Status is due. Submit the information specified in 40 CFR 63.506(e)(6)(i) through (e)(6)(xii). Subpart U. [40 CFR 63.506(e)(6)]
- 302 [40 CFR 63.499(d)] Submit recompilation report required by 40 CFR 63.499(d) within 180 days after the process change. Subpart U. [40 CFR 63.506(e)(7)(iii)]
- 303 [40 CFR 63.] All affected facilities shall comply with all applicable provisions in 40 CFR 63 Subpart A.
- 304 [40 CFR 82. Subpart F] Comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F, except as provided for Motor Vehicle Air Conditioners (MVACs) in Subpart B.
- 305 [LAC 33:III.103] Emissions of smoke which pass onto or across a public road and create a traffic hazard by impairment of visibility as defined in LAC 33:III.111 or intensify an existing traffic hazard condition are prohibited.
- 306 [LAC 33:III.1109.B] Outdoor burning of waste material or other combustible material is prohibited.
- 307 [LAC 33:III.1303.B] Emissions of particulate matter which pass onto or across a public road and create a traffic hazard by impairment of visibility or intensify an existing traffic hazard condition are prohibited.
- 308 [LAC 33:III.1305] Prevent particulate matter from becoming airborne by taking all reasonable precautions. These precautions shall include, but not be limited to, those specified in LAC 33:III.1305.1-7.
- 309 [LAC 33:III.1513] Equipment/operational data recordkeeping from the provisions of LAC 33:III.Chapter 15. Record all emissions data in the units of the standard using required to demonstrate exemption the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request.
- 310 [LAC 33:III.2113.A] Maintain best practical housekeeping and maintenance practices at the highest possible standards to reduce the quantity of organic compounds emissions. Good housekeeping shall include, but not be limited to, the practices listed in LAC 33:III.2113.A.1-5.
- 311 {LAC 33:III.219} Failure to pay the prescribed application fee or annual fee as provided herein, within 90 days after the due date, will constitute a violation of these regulations and shall subject the person to applicable enforcement actions under the Louisiana Environmental Quality Act including, but not limited to, revocation or suspension of the applicable permit, license, registration, or variance.

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- 312 [LAC 33:III.2901.D] Discharges of odorous substances at or beyond property lines which cause a perceived odor intensity of six or greater on the specified eight point butanol scale as determined by Method 41 of LAC 33:III.2901.G are prohibited. If requested to monitor for odor intensity, take and transport samples in a manner which minimizes alteration of the samples either by contamination or loss of material. Evaluate all samples as soon after collection as possible in accordance with the procedures set forth in LAC 33:III.2901.G.
- 313 [LAC 33:III.2901.F]
- 314 [LAC 33:III.507.G.5] Alternate Operating Scenario: Operating plan recordkeeping by logbook upon each occurrence of making a change from one operating scenario to another. Record the operating scenario under which the facility is currently operating. Include in this record the identity of the sources involved, the permit number under which the scenario is included, and the date of change. Keep a copy of the log on site for at least two years. Comply with the requirements of PSD-LA-672. This permit includes provisions of the Prevention of Significant Deterioration (PSD) review from Permit PSD-LA-672.
- 315 [LAC 33:III.509]
- 316 [LAC 33:III.5105.A.1] Do not construct or modify any stationary source subject to any standard set forth in LAC 33:III.Chapter 51.Subchapter A without first obtaining written authorization from DEQ in accordance with LAC 33:III.Chapter 51.Subchapter A, after the effective date of the standard.
- 317 [LAC 33:III.5105.A.2] Do not cause a violation of any ambient air standard listed in LAC 33:III.Table 51.2, unless operating in accordance with LAC 33:III.5109.B.
- 318 [LAC 33:III.5105.A.3] Do not build, erect, install, or use any article, machine, equipment, process, or method, the use of which conceals an emission that would otherwise constitute a violation of an applicable standard.
- 319 [LAC 33:III.5105.A.4] Do not fail to keep records, notify, report or revise reports as required under LAC 33:III.Chapter 51.Subchapter A.
- 320 [LAC 33:III.5107.A.2] Include a certification statement with the annual emission report and revisions to any emission report that attests that the information contained in the emission report is true, accurate, and complete, and that is signed by a responsible official, as defined in LAC 33:III.502. Include the full name of the responsible official, title, signature, date of signature and phone number of the responsible official.
- 321 [LAC 33:III.5107.A.2]
- 322 [LAC 33:III.5107.A] Include emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 in the Annual Emissions Report unless exempted under LAC 33:III.5105.B.
- 323 [LAC 33:III.5107.B.1] Submit Annual Emissions Report (TED): Due annually, by the 31st of March unless otherwise directed by DEQ, to the Office of Environmental Assessment in a format specified by DEQ. Identify the quantity of emissions in the previous calendar year for any toxic air pollutant listed in Table 51.1 or Table 51.3.
- 324 [LAC 33:III.5107.B.2] Submit notification: Due to the Department of Public Safety 24-hour Louisiana Emergency Hazardous Materials Hotline at (225) 925-6595 immediately, but in no case later than 1 hour, after any discharge of a toxic air pollutant into the atmosphere that results or threatens to result in an emergency condition (a condition which could reasonably be expected to endanger the health and safety of the public, cause significant adverse impact to the land, water or air environment, or cause severe damage to property).
- 325 [LAC 33:III.5107.B.6] Submit notification: Due to SPOC, except as provided in LAC 33:III.5107.B.6, no later than 24 hours after the beginning of any unauthorized discharge into the atmosphere of a toxic air pollutant as a result of bypassing an emission control device, when the emission control bypass was not the result of an upset, and the quantity of the unauthorized bypass is greater than or equal to the lower of the Minimum Emission Rate (MER) in LAC 33:III.5112, Table 51.1, or a reportable quantity (RQ) in LAC 33:III.3931, or the quantity of the unauthorized bypass is greater than one pound and there is no MER or RQ for the substance in question. Submit notification in the manner provided in LAC 33:III.3923.

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- 325 [LAC 33:III.5107.B.3] Submit notification: Due to SPOC, except as provided in LAC 33:III.5107.B.6, immediately, but in no case later than 24 hours after any unauthorized discharge of a toxic air pollutant into the atmosphere that does not cause an emergency condition, the rate or quantity of which is in excess of that allowed by permit, compliance schedule, or variance, or for upset events that exceed the reportable quantity in LAC 33:III.3931.
- Submit notification in the manner provided in LAC 33:III.3923.
- 326 [LAC 33:III.5107.B.4] Submit written report: Due by certified mail to SPOC within seven calendar days of learning of any such discharge or equipment bypass as referred to in LAC 33:III.5107.B.1 through B.3. Include the information specified in LAC 33:III.5107.B.4.a.i through B.4.a.viii.
- Report all discharges to the atmosphere of a toxic air pollutant from a safety relief device, a line or vessel rupture, a sudden equipment failure, or a bypass of an emission control device, regardless of quantity, IF THEY CAN BE MEASURED AND CAN BE RELIABLY QUANTIFIED USING GOOD ENGINEERING PRACTICES, to DEQ along with the annual emissions report and where otherwise specified. Include the identity of the source, the date and time of the discharge, and the approximate total loss during the discharge.
- Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ.
- Develop a standard operating procedure (SOP) within 120 days after achieving or demonstrating compliance with the standards specified in LAC 33:III. Chapter 51. Detail in the SOP all operating procedures or parameters established to ensure that compliance with the applicable standards is maintained and address operating procedures for any monitoring system in place, specifying procedures to ensure compliance with LAC 33:III.5113.C.5. Make a written copy of the SOP available on site or at an alternate approved location for inspection by DEQ. Provide a copy of the SOP within 30 days upon request by DEQ.
- Submit notification in writing. Due to SPOC not more than 60 days nor less than 30 days prior to initial start-up. Submit the anticipated date of the initial start-up.
- Submit notification in writing. Due to SPOC within 10 working days after the actual date of initial start-up of the source. Submit the actual date of initial start-up of the source.
- Maintain and operate each monitoring system in a manner consistent with good air pollution control practices for minimizing emissions. Repair or adjust any breakdown or malfunction of the monitoring system as soon as practicable after its occurrence.
- Comply with the Part 70 General Conditions as set forth in LAC 33:III.535 and the Louisiana General Conditions as set forth in LAC 33:III.537. [LAC 33:III.535, LAC 33:III.537]
- Prepare standby plans for the reduction of emissions during periods of Air Pollution Alert, Air Pollution Warning and Air Pollution Emergency.
- Design standby plans to reduce or eliminate emissions in accordance with the objectives as set forth in LAC 33:III.5611. Tables 5, 6, and 7.
- Submit standby plan for the reduction or elimination of emissions during an Air Pollution Alert, Air Pollution Warning, or Air Pollution Emergency. Due within 30 days after requested by the administrative authority.
- Comply with the provisions in 40 CFR 68, except as specified in LAC 33:III.5901.
- Identify hazards that may result from accidental releases of the substances listed in 40 CFR 68.130, Table 59.0 of LAC 33:III.5907, or Table 59.1 of LAC 33:III.5913 using appropriate hazard assessment techniques, design and maintain a safe facility, and minimize the off-site consequences of accidental releases of such substances that do occur.
- Submit registration: Due January 31, 1998, or within 60 days after the source becomes subject to LAC 33:III. Chapter 59, whichever is later. Include the information listed in LAC 33:III.5911.B, and submit to the Department of Environmental Quality, Office of Environmental Compliance, Surveillance Division.

SPECIFIC REQUIREMENTS

AJ ID: 1244 - Firestone Polymers - Lake Charles Facility
 Activity Number: PER20080001
 Permit Number: 0520-00007-V2
 Air - Title V Regular Permit Renewal

UNF 0001 LCF - Lake Charles Facility

- 339 [LAC 33:III.5911.C] Submit amended registration: Due to the Department of Environmental Quality, Office of Environmental Compliance, Surveillance Division within 60 days after the information in the submitted registration is no longer accurate.
- Install air pollution control facilities whenever practically, economically, and technologically feasible. When facilities have been installed on a property, use them and diligently maintain them in proper working order whenever any emissions are being made which can be controlled by the facilities, even though the ambient air quality standards in affected areas are not exceeded.
- 341 [LAC 33:III.913] Provide necessary sampling ports in stacks or ducts and such other safe and proper sampling and testing facilities, exclusive of instruments and sensing devices as may be necessary for proper determination of emission limits.
- Where, upon written application of the responsible person or persons, the administrative authority finds that by reason of exceptional circumstances strict conformity with any provisions of these regulations would cause undue hardship, would be unreasonable, impractical or not feasible under the circumstances, the administrative authority may permit a variance from these regulations.
- No variance may permit or authorize the maintenance of a nuisance, or a danger to public health or safety.
- 342 [LAC 33:III.917.A] Submit Emission Inventory (E) / Annual Emissions Statement: Due annually, by the 31st of March for the period January 1 to December 31 of the previous year unless otherwise directed. Submit emission inventory data in the format specified by the Office of Environmental Assessment, Environmental Evaluation Division. Include all data applicable to the emissions source(s), as specified in LAC 33:III.919.A-D.
- Report the unauthorized discharge of any air pollutant into the atmosphere in accordance with LAC 33:I. Chapter 39, Notification Regulations and Procedures for Unauthorized Discharges. Submit written reports to the department pursuant to LAC 33:I.3925. Submit timely and appropriate follow-up reports detailing methods and procedures to be used to prevent similar atmospheric releases.
- 343 [LAC 33:III.917.B]
- 344 [LAC 33:III.919.D]
- 345 [LAC 33:III.927]
- 346 [LAC 33:III.929.A] No person or group of persons shall allow particulate matter or gases to become airborne in amounts which cause the ambient air quality standards to be exceeded.